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Litigation Report, United States Smelting Lead Refinery, Inc. East Chicago, Indiana Unpermitted Discharges; Permit Violations

# UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION V

#### LITIGATION REPORT

A REPORT DOCUMENTING SERIOUS AND CONTINUING VIOLATIONS OF THE CLEAN WATER ACT BY THE UNITED STATES SMELTING LEAD REFINERY, INCORPORATED, EAST CHICAGO, INDIANA

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#### I. INFORMATION IDENTIFYING THE DEFENDANT

#### A. Name

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United States Smelting Lead Refinery, Inc. 5300 Kennedy Avenue
East Chicago, Indiana 46312

#### Registered Agent

Donald J. Bidwell 5300 Kennedy Avenue East Chicago, Indiana 46312

#### B. Type of Business

Operates a lead reclamation business using batteries and other waste materials containing lead in the extraction process

## C. Judicial District In Which Defendant Is Located

United States District Court for the Northern District of Indiana.

#### D. Name And Address Of Defendant's Counsel

Unknown

#### II. SYNOPSIS OF THE CASE

United States Smelting Lead Refinery, Inc. (U.S.S. Lead) operates a plant in East Chicago, Indiana. The plant is a secondary lead refinery/smelter. U.S.S. Lead reclaims lead primarily from old automobile and truck batteries. This reclamation process results in the generation of a wastewater stream containing acids, lead, arsenic, sulfates, fluorides, and suspended solids. The process also uses a once through non-contact cooling water. The contaminated wastewater process stream is discharged to the East Chicago Wastewater Treatment Plant. The non-contact cooling water combines with plant

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storm drain run-off and boiler water blowdown and is discharged to the Grand Calumet River (via a marsh), which is tributary to the Indiana Harbor Canal, tributary to Lake Michigan. About 15,000 gallons of non-contact cooling water alone are generated per day, along with an unspecified amount of storm water runoff and boiler blowdown.

A National Pollutant Discharge Elimination System (NPDES) permit, IN 0032425, was issued to U.S.S. Lead Inc. by the Indiana Stream Pollution Control Board (ISPCB) on June 15, 1975, expiration date March 31, 1980. The permit requires U.S.S. Lead to request renewal of the permit no later than 180 days prior to the permit's expiration date. U.S.S. Lead did not request a renewal of the permit until September 27, 1982. Therefore, from March 31, 1980 until the present, the U.S.S. Lead has continued to discharge without a valid permit.

Even assuming <u>arguendo</u>, that the defendant's expired permit was still in effect, a review of the Discharge Monitoring Reports (DMR's) submitted by the U.S.S. Lead indicates that the permittee has consistently exceeded the permit's effluent limits for maximum lead concentrations since September 1982, through and including June 1984. U.S. EPA compliance sampling inspections on January 10, 1984 and on April 9-10, 1984 have also found U.S.S. Lead to be violating the permit's effluent limits for maximum lead concentrations. Attachments 4 & 5)

The expired permit required U.S.S. Lead to notify in writing, the Regional Administrator and the State of Indiana of any permit violations within 5 days after learning of the

violations. U.S.S. Lead has contacted neither the U.S. EPA nor the ISPCB of any of the aforementioned lead limit violations.

The expired permit required U.S.S. Lead to take samples in compliance with the permit's monitoring requirements at a point representative of the discharge but prior to entry into the Grand Calumet River. The permit's discharge limitations also require U.S.S. Lead to monitor the effluent flow. Both the January 10, 1984 and April 9-10, 1984 U.S. EPA plant inspections indicate that the U.S.S. Lead sampling point is meither an accurate nor representative sampling location of the discharge. Both inspections found the current sampling point to be submerged below the receiving streams and influenced by runoff from adjacent landfill areas. According to the permit, the sampling point should not be influenced by either the receiving streams or runoff from adjacent landfill areas.

The State has failed to take appropriate enforcement action. Although the ISPCB initiated an enforcement proceeding against U.S.S. Lead on April 3, 1984, on June 14, 1984, the state continued the proceedings indefinitely. (Attachment 6) To our knowledge, the ISPCB has not undertaken any settlement negotiations. Accordingly, Region V submits that a Federal enforcement action should be instituted.

#### III. STATUTORY AUTHORITY

A. Substantive legal Requirement

Section 301 of the Clean Water Act, as amended (CWA [33] U.S.C. § 1311), makes it unlawful to discharge pollutants in to the waters of the United States, except in conformance with

the terms and conditions of an NDPES permit properly issued pursuant to Section 402 of the Act.

Section 309 of the CWA, 33 U.S.C. § 1319, provides the authority to seek a preliminar, or permanent injunction against violations of NPDES permit requirements as well as civil penalty assessment of up to \$10,000 per day of violation.

Section 309(b), 33 U.S.C. § 1319(b), vests jurisdiction of civil matters under the CWA in the United States District Court for the District in which the defendant is located, resides, or is doing business. The Defendant, U.S.S. Lead, is physically located within the jurisdiction of the U.S. District Court for the Northern District of Indiana.

Section 506, 33 U.S.C. § 1366, provides authority to the Department of Justice to bring the action on behalf of the Administrator, U.S. EPA. A draft Complaint is appended to this Report as Attachment 1.

### B. Prior Legal Interpretations

The instant case involves an unpermitted discharge of toxic and non-toxic pollutants to navigable waters of the United States. in violation of 33 U.S.C. §1311(a). There are a number of reported judicial decisions which discuss issues which may arise in the instant case.

The case which has probably the greatest similarity with the instant case and which discusses the most potential issues is United States v. Earth Sciences, Inc., 599 F.2d 368 (10th Cir. 1979). That case involved unpermitted discharges from a gold leaching operation to a stream which was not used for navigation. The Tenth Circuit held that Congress intended to regulate waters

to the fullest extent of its constitutional powers, and that any discharge which could possibly impact navigable waters would be considered as a discharge to navigable waters as proscribed in the Act. The Court also held that the Act imposed strict liability, and that intent to violate the Act was not a requirement. Finally, the court held that EPA need not issue an Administrative Order or Notice of violation before filing a civil action, and that EPA could choose to enforce the requirements of the Act prospectively against a particular violator or punish the violator for past violations.

The issue of what constitutes navigable waters has been treated in other cases. Courts interpret the Act broadly to include any area which could potentially impact waters which are navigable in fact. In <u>United States v. Phelps Dodge</u>, 391 F. Supp. 1181 (D. Ari. 1975), the court found that a prohibited discharge could occur to dry arroyos if pollutants could possibly end up in a navigable body of water. In <u>United States v. Texas Pipe Line Company</u>, 611 F.2d 345 (10th Cir. 1979), the court held that a prohibited discharge could occur to an unnamed tributary of a navigable water, especially if flow from the tributary could occur during rainfall.

Intent has been held not to be a requirement for violation of the Act. See United States v. Bradshaw, 541 F. Supp. 884 (D. Md. 1982). In United States v. Frezzo Brothers, 546 F. Supp. 713 (E.D. Pa. 1982), a United States District Court held that it was not necessary for the government to prove that the defendant

specifically intended to violate the statute, even in a criminal\_ The government need only prove that the defendant acted willfully or negligently, and that it intended to do the acts for which it was convicted. As demonstrated in Section III of this Report, above, U.S. EPA is able to make a prima facie case under the CWA for Permit violations. In the case at hand, U.S.S. Lead was properly issued NPDES Permit No. IN0032425 effective June 15, 1975. This permit expired on March 31, 1980. Attachment 2. U.S.S. Lead failed to submit a reapplication until September 27, 1982. U.S.S. Lead's continued discharge of pollutants after March 31, 1980, is a prima facie violation under Section 301 of the CWA, 33 U.S.C. \$1311. In addition, the information presented in Section IV of this Report, supra, documents past violations of the U.S.S. Lead's expired NPDES permit. Because the CWA is a strict liability statute, the government need only demonstrate the existence of a violation, and not environmental damage, injury, or harm.

#### C. Alternate Courses of Action

while EPA has authority to issue an Administrative Order rather than filing a civil action, Region V believes that a civil action for injunctive relief and penalties is appropriate for a number of reasons. First, an Administrative Order could not be used for collection of penalties. Assessment of penalties is highly appropriate in this case, due to the long-standing nature of U.S.S. Lead's unpermitted discharge, as well as the potential threat to the environment caused by U.S.S. Lead's excessive discharge of lead.

Second, because U.S.S. Lead is discharging toxic pollutants which may have already adversely impacted the receiving water, it is imperative to place U.S.S. Lead on a judicially enforceable schedule for coming into compliance as expeditiously as practicable.

Another alternative action is to reissue the permit. However, this is an unacceptable solution because it would not address U.S.S. Lead's failure to apply for a new permit in a tirely fashiom. Also, under the terms and conditions of a new permit, U.S.S. Lead would still continue to violate the effluent guidelines for lead.

The most viable alternative is to file a civil action. The filing of a civil action would enable the EPA to collect civil penalties and hopefully to negotiate a consent decree. A civil action for injunctive relief and civil penalties would provide the necessary deterrent to abate this potential threat to public health as soon as possible. Issuance of an administrative order would only delay the process.

# IV. DESCRIPTION OF DEFENDANT AND TECHNICAL DESCRIPTION OF POLLUTION SOURCE

U.S.S. Lead Refinery Incorporated, East Chicago, Indiana is located in northwest Indiana approximately 25 miles from downtown Chicago, Illinois. The facility is discharging a combination non-contact process cooling water, boiler blowdown and storm water stream into the Grand Calumet River, tributary to the Indiana Harbor Canal, tributary to Lake Michigan.

The pollution source from the defendant is controlled by a National Pollutant Discharge Elimination System (NFIES) dermit, IN 0032425; which was issued to U.S.S. lead on June 15, 1975,

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expiration date March 31, 1980. The permit requires U.S.S. Lead to request renewal of the permit no later than 180 days prior to the permit's expiraton date. U.S.S. Lead did not request a renewal of the permit until September 27, 1982. From March 31, 1980 until the present, U.S.S. Lead continues to discharge pollutants without a permit.

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The expired permit had a maximum total lead discharge limit of 0.2 mg/l to be monitored on a weekly grab basis. All of the DMR's submitted by U.S.S. Lead between September 1982 through and including June 1934 showed violations of the effluent limits for lead. The U.S. EPA compliance sampling inspections on January 10, 1984 and april 9-10, 1984 indicate the discharge lead concentration to be respectively, 1.43 mg/l, and 4.01 mg/l.

The expired permit required the permittee to notify in writing, the Regional Administrator and the State of Indiana of any permit violations within 5 days after learning of the violation. U.S.S. Lead has contacted neither the U.S. EPA nor the ISPCB of any of the aforementioned lead limit violations.

The expired permit further required U.S.S. Lead to take samples in compliance with the permit's monitoring requirements at a point representative of the discharge but prior to entry into the Grand Calument River. The permit's discharge limitations also required U.S.S. Lead to monitor the effluent flow. Both the January 10, 1984 and April 9-10, 1984, U.S. EPA plant inspections indicate that contrary to this permit requirement the U.S.S. Lead sampling point is neither an accurate nor representative sampling location of the discharge. Both the January and April 1984 U.S. EPA inspections indicate that the current

pattery storage area, runoff or leaching from an adjacent slagfilled area, boiler blowdown, or suring low flow, leaching from sediments in the discharge area.

The flow measurement for the discharge is based only on an estimate of the process cooling water. Accordingly, the flow measurement calculations do not account for water due to stone drain runoff or inflow, that is infiltrating to the drainage system, or boiler blowdown.

# A. Description of the Facility

U.S.S. Lead is located at 5301 Kennely Avenue, East Chicago, Indiana 46312, phone number 219/397-1010; Mr. Donald J. Bidwell is listed as the Vice-President, General Manager of the company. The facility has annual sales of 59-10 million; employs approximately 110 people; has about 70,000 square feet of floor space; and is owned by Sharon Steel Corporation. Sharon Steel Corporation's address is P.O. Box 291, Sharon, PA 16146; phone number 412/981-1375. Sharon Steel Corporation is in turn owned by the NVF Company, Yorklyn Rd., Yorklyn, Delaware 19736; phone number 302/239-5281. The NVF Company employs approximately 6,150 people and has assets of \$5,000,000,000.

#### B. Source of Pollution

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The facility is a secondary lead smaller using lead from old automobile and truck batteries and industrial lead schap as it's naw material.

The process subdivides each tatter, into it's primary 3

components (i.e., acid, lead cell, and casings). Then, each separate commonent is in turn handled as follows:

- 1. The acid component is treated in a two stage system to remove leaf and to control pH; the first stage settles but the lead; while the second stage adds sodium hydroxide to the acid to neutralize it to a pH around 7.0. The recovered lead is further processed via a mechnical and chemical operation which produces a high grade of reusable lead one and an acidic sludge. The sludge is disposed of properly under RCRA as a hazardous waste.
- 2. The lead tattery cells are removed and sent to the plant's blast furnace (according to a March 1984 Air Compliance inspection, the plant is in compliance).
- 3. The pattery casings are separated by type, i.e., plastic or rubber, stored on site until enough have accumulated for shredding and then disposal.

Since this is not a continuous process, the unopened batteries and empty casings may be stored on the site for varying amounts of time. Both the January and April 1934, U.S. EPA inspections report that there may potentially be a problem from runoff due to this storage. During a forthcoming inspection, scheduled for later this year, samples can be obtained of the soil and surface waters in the battery storage area. The results from these samples can then be used to determine the extent of the potential problems which U.S.S. Lead could be asked to correct the receipt cation of the relief sought.

Wastewater from the acid treatment system is discharged to the East Chicago WWTP. No adverse impacts from this discharge have been reported.

According to the plant engineer, Mr. R.D. Steels, discharge from outfall 001 consists of non-contact cooling water, storm water drains, and boiler blowdown. Casting house cooling water and storm drains combine with boiler house storm drains. The water then combines with cooling water from the furnace and is discharged without any treatment at discharge 011.

The facility's permit which expired in March 1980, required: flow measurement (when sampling); daily 24-hour composite sampling for total lead, arsenic, sulfate, flouride, and total suspended solids; and a daily grab sample for pH. The sampling frequency was changed to a weekly grab sample in a letter from the ISBH dated March 15, 1976.

The facility did not report any Effluent Monitoring Data between March 1981 and August 1982.

The analytical results of the samples taken during both the January 10 and April 9-10, 1984 inspections show that the facility exceeded its permit limits for lead of 0.2 mg/l. The January 10 result for lead was 1.43 mg/l. The April 9-10 result for lead was 4.01 mg/l. DMR's submitted by the facility show they exceeded the permit limits for lead during the months of May 1981 thru June 1984 inclusive.

The facility collects samples from outfall 001 in the channel after the water has left the discharge pipe. This sampling point could be influenced by run-off from the battery storage area, run-off or leaching from an adjacent slag filled area, boiler blowdown, or at low flow, the discharge channel sediments. The samples taken during the January 10th survey are from this sample point. The samples taken during the April 9-10th survey are from a man hole upstream of the discharge pipe and accurately reflect what is in the discharge pipe. (Attachments 4 and 5)

# C. Pollutants Involved; Environmental Harm

The serious and continuous level of lead discharged into the Grand Calumet River is causing irrefutable damage to the aquatic life in the vicinity of the U.S.S. Lead facility.

Standard acute data for lead on freshwater fish and invertebrate species, shows both acute and chronic toxicities on these groups. Freshwater algae are affected by high concentrations of lead. Delayed development, suppressed reproduction and inhibition of growth rate among fish, crab, polychaete worm and plankton are also caused by lead. Lead in man has been shown to cause adverse carcinogenic, tetratogenic, mutagenic, reproductive, renal, and cardiovacular effects.

### D. Remedial Action

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The facility should isolate all of its once through cooling lines from any process contamination. Accurate total flow measurements should be made of the discharge. The discharge sampling point should be isolated in such a manner that it is not influenced by any other waters or sediments. In the near

fiture, the Army Corps of Engineers is llanning to dredge all of the polluted sediments from the Grand Calumet River in the immediate area of U.S.S. Lead. Thus, until the actual dredge work begins it will suffice to stop the current source of the texticant's coming from U.S.S. Lead.

# V. Administrative and Enforcement History (State and Federal)

#### A. Prior Attempts to Obtain Compliance

The State of Indiana, Indiana Stream Pollution Control Board issued a National Pollutant Discharge Elimination System (NPDES) Permit to U.S.S. Lead on June 15, 1975. This permit expired March 31, 1980, and a renewal application was not made until September 27, 1982, in violation of Section 301(a) the CWA, 33 U.S.C. §1311.

The NPDES Permit contained interim effluent limitations in effect on the date of issuance of the Permit until its expiration on March 31, 1980. Pertinent limitations included:

kg/day Daily Average	(lbs/cay) Daily Maximum	Other Limitations Average Maximum	
-	-		
<u>-</u>	-	- 0.2 mg/l	
-	-	1.0 mg/l	
*230(506)	*459(1112)		
1.8(4.0)	3.8(E.1)		
-	-	20 mg/1 - 3u mg/	'1
	Daily Average - - *230(506)	Daily Average Maximum	Daily Average         Daily Maximum         Limitations Average Maximum           -

\*Net Values - above the background levels of the intake water. Intake water shall be monitored on daily basis by grad samples.

Additionally, the permit required flow measurement when sampling; daily 24-hour composite sampling for total lead, arsertd, sulfate, fluoride, and total suspended solids; and a daily grat sample for ph. The sampling frequency was changed to a weekly grab sample in a letter from the ISBH dated March 15, 1976.

The facility failed to report any effluent monitoring data between March, 1981, and August, 1982. Furthermore the Company's subsequently submitted Discharge Monitoring Reports (DMR) show that U.S.S. Lead consistently is in violation of the total lead limit and sampling requirements. Specifically, DMR's submitted by the facility show they exceeded the permit limits for lead during the months of: September 1982, thru June 1904 inclusive. (See Attachment 3)

The ISPCB initiated an enforcement proceeding against U.S.S. Lead for violations of Indiana Regulation 330 IAC 5 (failure to comply with the terms of the NPDES Permit) see Attachment 6. However, although the Notice of Hearing and Complaint were issued on April 3, 1984, on June 14, 1984, the State continued the preceedings indefinitely. Since that date the State has taken no further enforcement action nor entered into settlement negotiations with U.S.S. Lead.

On January 10, 1984, in response to a report of a duck will in the vicinity of the U.S.S. Lead facility, a U.S. EFA inspection team was sent to investigate the site and sample the clarits

discharge and ditch on the west side of the plant. A report of the inspection by John McGLire, Environmental Engineer and Charles Steiner, Aquatic Biologist, is appended as Attachment 4.

On April 9-10, 1964, another U.S. EPA inspection team was sent to the site. A report of the inspection by John McGuire, Environmental Engineer, Sylvia Griffin, Physical Science Technican, and Mark Wehling, Engineer Trainee is appended as Attachment 5. Both inspections by U.S. EPA personnel substantiate the problems encountered by state inspections and cite the facility for exceeding the effluent limitations within its expired permit, discharging without a valic permit and improper sampling procedures. The analytical results of the samples taken during both the January 10 and April 9-10 inspections show that the facility exceeded its permit limits for lead of 0.2 mg/l. The January 10 result for lead was 1.43 mg/l. The April 9-10 result for lead was 4.0 mg/l.

#### B. Federal Enforcement

No federal enforcement was undertaken by the U.S. EPA prior to the issuance of this action. In light of the longstanding nature of this violation, and the necessity to bring U.S.S. Lead into compliance in an expeditious manner, this recommended federal enforcement action is appropriate. EPA will keep ISBH apprised of the progress of the suit, and afford the state appropriate opportunities to participate, if it so desires. Moreover, in this case, since the state already signaled its intent not to prosecute an eforcement action, issuance of an administrative action would be pointless.

Region V submits that a civil action rather than an addinistrative action, is needed to address these problems.

## VI. REQUIRED ELEMENTS OF PROOF AND EVIDENCE

#### A. Elements of Proof

Because the instant case involves a violation of Section 301(a), 33 U.S.C. §1311(a), it will be necessary to prove that U.S.S. Lead discharged pollutants to navigable waters without a valid NPDES permit. The lack of a valid NPDES permit can be proven in a variety of ways, such as by afficavits from the custodians of records of EPA and the ISPCB, or if necessary through written interrogatories or requests for addissions. If U.S.S. Lead attempts to argue that its expired permit is valid, a prima facie case under the CWA for violation of NPDES permit terms and conditions is established by a showing of the following elements:

- The existence of an NPDES permit properly issued to the defendant;
- (2) The validity of the permit at the time of the alleged violations; and
- (3) Actions by the defendant that are contrary to the terms and conditions of the permit.

The fact that U.S.S. Lead was discharging lead in excess of its permit limits can easily be demonstrated by use of the submitted DMRS and inspection reports. If necessary accitional facts may be secured through written interrogatories and requests for additissions. A field survey to collect additional samples is being arranged, and additional information may be available in one month or less.

### B. Evidence of Violation

Evidence to show that the company is presently discharging without a valid NPDES Permit can be easily presented by introducing the expired permit and the present application for a permit to discharge.

EPA presently has two inspection reports (See Attchmerts 4 and 5) concerning inspections by EPA personnel. The analytical results of the samples taken during both the January 10 and April 9-10 inspections show that the facility exceeded its permit limits for lead of 0.2 mg/l. The January 10 result for lead was 1.43 mg/l. The April 9-10 result for lead was 4.0 mg/l.

We feel there is evidence to fully support this action. A firthcoming field survey can be used to supplement this data, but is not required to show proof of violation.

## C. Discovery

Most of the evidence necessary to prove this case can be obtained from documents presently on file with EPA. We feel that there is currently enough evidence to fully support this action. Another field survey will be done to supplement the current data in the near future. EPA should be able to obtain whatever additional information is necessary concerning the quantity of lead discharges from answers to interrogatories, requests fir production of documents, and requests for admissions.

#### D. Evidence of Environmental Harm

The lead water quality standard, for the portion of the river under discussion, is less than 0.05mg/l. U.S.S. Lead is milating this standard by discharging up to 4.01 mg/l of lead. Discrarges

of lead of this concentration level into the environment can be very harmful.

## E. Evidence Favorable to the Violator

There does not appear to be any evidence favorable to the violator.

# F. Government Witnesses

The following U.S. EPA Region V, personnel are available to provide fact and expert testimony or introduce documents in this projected civil action.

General Permit Requirements Kenneth A. Fenner Chief, Water Quality Branch Water Division, Region V

Effluent limitation for outfall 00l on the basis of data gathered during U.S. EPA inspections

John McGuire Environmental Engineer Environmental Services Division

Permit effluent limitation violation on the basis of monthly discharge reports Ronald D. Kovach Environmental Scientist Water Division

To testify to the environmental damage due to high lead concentrations

Charles Steiner Aquatic Biologist Central Regional Laboratory

#### G. Defense Witnesses

It is unknown what witnesses U.S.S. Lead would produce, or upon what defenses U.S.S. Lead will attempt to rely.

### H. Resource Heeds

Due to the clear-cut nature of the implantors in this case, the settlement potential could be excellent. Even if trial is

required, it is not anticipated that a substrantial extenditure of Regional resources will be required. The case will retaine devotion of probably less than one-eighth work year of Regional Counsel and one-eighth work year of Water Division staff time.

#### VII. THE RELIEF SOUGHT.

The attached draft Complaint, Attachment 1, seeks the following relief against U.S.S. Lead:

- a preliminary and permanent injunction to restrain present and future violations of U.S.S. Lead's NPDES Permit, or any successor Permit, and all applicable provisions and sections of the CWA and state regulations;
- 2) an Order requiring U.S.S. Lead to comply with the final effluent limits, are sampling procedures contained in U.S.S. Lead's RPDES Permit.
- an Order requiring U.S.S. Lead to initiate proper operations and maintenance procedures to ensure the proper operation of the facility;
- 4) a civil penalty in the amount of \$10,000 per day for each day of violation of the terms and conditions of Indiana NPDES Permit No. INDG32425.

#### VIII. ANTICIPATED ISSUES

## A. Possible Defenses

V.S.S. Lead may attempt to argue that its expired permit is valid pending acceptance of its present permit application. This argument is without merit. U.S.S. Lead is discharging without a valid permit. In addition, information presently available indicates U.S.S. Lead has consistently and continuously violated the effluent limits for lead contained in its estimat termit.

U.S.S. Lead might claim that it is economicially infeasible for it to achieve applicable effluent limitations. However, reviewing

courts have ben ursympathetic to economic infeasibility arguments in water pollution cases. See National Association of Metal Finishers v. Environmental Protection Agency, 713 F.2d 624 (3d Cir. 1983).

# B. Equitable Arguments

U.S.S. Lead does not appear to have any equitable arguments.

As a result of U.S. EPA inspections on Jan. 10, and April 9-10, 1934, EPA was apprised of the unpermitted discharge by U.S.S. Lead.

After the ISPCD indicated that it did not intend to bring any further enforcement action, EPA acted promptly to address the unpermitted discharge so the equitable doctrine of laches would not apply. There has been no inexcusable delay in asserting a claim. See State of Michigan v. City of Allen Park, 501 F.Supp. 1007 (E.D. Mich. 1930).

## C. Pending Related Adminstrative or Court Action

Although technically there is a pending administrative action with the Indiana Stream Pollution Control Board, the State has indicated that no additional action will be taken relating to the instant case.

#### D. Practical Problems

Due to the small size of the pollution source, it is possible that a court would not be sympathetic to requests for substantial penalties. However, due to the threat to the environment presented by this discharge, it smalls be possible to obtain injunctive relief, even if the Court is inclined to impose less than substantial penalties.

#### IX. LITIGATION STRATEGY

## A. Other Potential Defendants

U.S.S. Lead is a relatively small company. In the event that it has insufficient financial resources to accomplish necessary action, it might be appropriate to name Sharon Steel Company, owner of U.S.S. Lead, as a defendant and/or the NVF corporation. Action against Donald J. Bidwell, Vice-President and General Manager might also be appropriate if it appears that U.S.S. Lead's unpermitted discharges were the result of his willfulness or negligence.

## B. Jurisdiction and Venue

The United States District Courts have jurisdiction over this action pursuant to 33 '.S.C. §1319(b) and 28 U.S.C. §1345. Venue is proper in the United States District Court for the Northern District of Indiana. pursuant to 28 U.S.C. §1391(b), because that is the judicia! district where the defendant resides and the cause of action accrued.

# C. Potential for Summary Judgment

The violations in the case are clear-cut, and there do not appear to be any real issues of material fact. Therefore, a motion for summary judgment by the United States would probably be successful, if the case is not settled.

#### D. Related Violations

EPA is currently unaware of related violations of other environmental statutes by 1.3.5. lead.

# E. Additional Compliance Mechanisms

A judicially enforceable consent decree placing U.S.S. Lead on a schedule for coming into compliance and providing for civil penalties is probably the best way to bring U.S.S. Lead into compliance. U.S. EPA believes that an Administrative Order would not be an effective enforcement vehicle due to the need to impose civil penalties for the 2-year period during which U.S.S. Lead was not in compliance.

## F. Settlement Potential

Due to the clear-cut nature of the violations, the relatively simple corrective action the company should take to achieve compliance and the potential for substantial civil penalties being levied, the settlement potential of this case is fairly high.

# X. INDEX OF ATTACHMENTS

- Draft Complaint
- 2. NPDES Permit IN0032425
- 3. Discharge Monitoring Reports

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- Notices of Hearing and Complaint and Notices of Continues ISPCB

# UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION V

#### LITIGATION REPORT

A REPORT DOCUMENTING SERIOUS AND CONTINUING VIOLATIONS OF THE CLEAN WATER ACT BY THE UNITED STATES SMELTING LEAD REFINERY, INCORPORATED, EAST CHICAGO, INDIANA

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#### I. INFORMATION IDENTIFYING THE DEFENDANT

#### A. Name

United States Smelting Lead Refinery, Inc. 5300 Kennedy Avenue
East Chicago, Indiana 46312

#### Registered Agent

Donald J. Bidwell 5300 Kennedy Avenue East Chicago, Indiana 46312

#### B. Type of Business

Operates a lead reclamation business using batteries and other waste materials containing lead in the extraction process

#### C. Judicial District In Which Defendant Is Located

United States District Court for the Northern District of Indiana.

### D. Name And Address Of Defendant's Counsel

Unknown

#### II. SYNOPSIS OF THE CASE

United States Smelting Lead Refinery, Inc. (U.S.S. Lead) operates a plant in East Chicago, Indiana. The plant is a secondary lead refinery/smelter. U.S.S. Lead reclaims lead primarily from old automobile and truck batteries. This reclamation process results in the generation of a wastewater stream containing acids, lead, arsenic, sulfates, fluorides, and suspended solids. The process also uses a once through non-contact cooling water. The contaminated wastewater process stream is discharged to the East Chicago Wastewater Treatment Plant. The non-contact cooling water combines with plant

storm drain run-tif and boiler water blowdown and is discharged to the Grand Calumet Fiver (via a marsh), which is tributary to the Indiana Harbir Canal, tributary to Lake Michigan. About 15,000 gallons of non-contact cooling water alone are generated per day, along with an unspecified amount of storm water runoff and boiler blowdown.

A National Pollutant Discharge Elimination System (NPDES) permit, IN 0032425, was issued to U.S.S. Lead Inc. by the Indiana Stream Pollution Control Board (ISPCB) on June 15, 1975, expiration date March 31, 1980. The permit requires U.S.S. Lead to request renewal of the permit no later than 180 days prior to the permit's expiration date. U.S.S. Lead did not request a renewal of the permit until September 27, 1932. Therefore, from March 31, 1930 until the present, the U.S.S. Lead has continued to discharge without a valid permit.

Even assuming <u>arguendo</u>, that the defendant's expired permit was still in effect, a review of the Discharge Monitoring Reports (DMR's) submitted by the U.S.S. Lead indicates that the permittee has consistently exceeded the permit's effluent limits for maximum lead concentrations since September 1982, through and including June 1984. U.S. EPA compliance sampling inspections on January 10, 1984 and on April 9-10, 1984 have also found U.S.S. Lead to be violating the permit's effluent limits for maximum lead concentrations. Attachments 4 & 5)

The expired permit required U.S.S. Lead to notify in writing, the Regional Afministrator and the State of Indiana of any permit violations within 5 days after learning of the

violations. U.S.S. Lead has contacted neither the U.S. EPA nor the ISPCB of any of the aforementioned lead limit violations.

The expired permit required U.S.S. Leaf to take samples in compliance with the permit's monitoring requirements at a point representative of the discharge but prior to entry into the Grand Calumet River. The permit's discharge limitations also require U.S.S. Lead to monitor the effluent flow. Both the January 10, 1984 and April 9-10, 1984 U.S. EPA plant inspections indicate that the U.S.S. Lead sampling point is neither an accurate nor representative sampling location of the discharge. Both inspections found the current sampling point to be submerged below the receiving streams and influenced by runoff from adjacent landfill areas. According to the permit, the sampling point should not be influenced by either the receiving streams or runoff from adjacent landfill areas.

The State has failed to take appropriate enforcement action. Although the ISPCB initiated an enforcement proceeding against U.S.S. Lead on April 3, 1984, on June 14, 1984, the state continued the proceedings indefinitely. (Attachment 6) To cur knowledge, the ISPCB has not undertaken any settlement negotiations. Accordingly, Region V submits that a Federal enforcement action should be instituted.

#### III. STATUTORY AUTHORITY

A. Substantive Legal Requirement

Section 301 of the Clean Water Act, as amended (CWA) [33 U.S.C. § 1311], makes it unlawful to discharge pollutants in to the waters of the United States, except in conformance with

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the terms and conditions of an NDPES permit properly issued pursuant to Section 402 of the Act.

Section 309 of the CWA, 33 U.S.C. § 1319, provides the authority to seek a preliminary or permanent injunction against violations of NPDES permit requirments as well as civil penalty assessment of up to \$10,000 per day of violation.

Section 309(b), 33 U.S.C. § 1319(b), vests jurisdiction of civil matters under the CWA in the United States District Court for the District in which the defendant is located, resides, or is doing business. The Defendant, U.S.S. Lead, is physically located within the jurisdiction of the U.S. District Court for the Northern District of Indiana.

Section 506, 33 U.S.C. § 1366, provides authority to the Department of Justice to bring the action on behalf of the Administrator, U.S. EPA. A draft Complaint is appended to this Report as Attachment 1.

## B. Prior Legal Interpretations

The instant case involves an unpermitted discharge of toxic and non-toxic pollutants to navigable waters of the United States, in violation of 33 U.S.C. \$1311(a). There are a number of reported judicial decisions which discuss issues which may arise in the instant case.

The case which has probably the greatest similarity with the instant case and which discusses the most potential issues is United States v. Earth Sciences, Inc., 599 F.2d 368 (10th Cir. 1979). That case involved unpermitted discharges from a gold leaching operation to a stream which was not used for navigation. The Tenth Circuit held that Congress intended to regulate waters

to the fullest extent of its constitutional powers, and that any discharge which could possibly impact navigable waters would be considered as a discharge to navigable waters as proscribed to the Act. The Court also held that the Act imposed strict liability, and that intent to violate the Act was not a requirement. Finally, the court held that EPA need not issue an Administrative Order or Notice of violation before filing a civil action, and that EPA could choose to enforce the requirements of the Act prospectively against a particular violator or punish the violator for past violations.

The issue of what constitutes navigable waters has been treated in other cases. Courts interpret the Act broadly to include any area which could potentially impact waters which are navigable in fact. In <u>United States v. Phelps Dodge</u>, 391 F. Supp. 1181 (D. Ari. 1975), the court found that a prohibited discharge could occur to dry arroyos if pollutants could possibly end up in a navigable body of water. In <u>United States v. Texas Pipe Line Company</u>, 611 F.2d 345 (10th Cir. 1979), the court held that a prohibited discharge could occur to an unnamed tributary of a navigable water, especially if flow from the tributary could occur during rainfall.

Intent has been held not to be a requirement for violation of the Act. See United States v. Bradshaw, 541 F. Supp. 884 D. Md. 1982). In United States v. Frezzo Brothers, 546 F. Supp. 713 (E.D. Pa. 1982), a United States District Court held that it was not necessary for the government to prove that the defendant

Second, because U.S.S. Lead is discharging toxic pollutants which may have already adversely impacted the receiving water, it is imperative to place U.S.S. Lead on a judicially enforceable schedule for coming into compliance as expeditiously as practicable.

Another alternative action is to reissue the permit. However, this is an unacceptable solution because it would not address U.S.S. Lead's failure to apply for a new permit in a timely fashion. Also, under the terms and conditions of a new permit, U.S.S. Lead would still continue to violate the effluent guidelines for lead.

The most viable alternative is to file a civil action. The filing of a civil action would enable the EPA to collect civil penalties and hopefully to negotiate a consent decree. A civil action for injunctive relief and civil penalties would provide the necessary deterrent to abate this potential threat to public health as soon as possible. Issuance of an administrative order would only delay the process.

# IV. DESCRIPTION OF DEFENDANT AND TECHNICAL DESCRIPTION OF POLLUTION SOURCE

U.S.S. Lead Refinery Incorporated, East Chicago, Indiana is located in northwest Indiana approximately 25 miles from downtown Chicago, Illinois. The facility is discharging a combination non-contact process cooling water, boiler blowdown and storm water stream into the Grand Calumet River, tributary to the Indiana Harbor Canal, tributary to Lake Michigan.

The pollution source from the defendant is controlled by a National Pollutant Discharge Elimination System (NPDES) permit, 15 0032425; which was issued to 6.5.5. Leas in June 15, 1975,

expiration date March 31, 1980. The permit requires T.S.S. Lead to request renewal of the permit no later than 180 days prior to the permit's expiraton date. U.S.S. Lead did not request a renewal of the permit until September 27, 1982. From March 31, 1980 until the present, U.S.S. Lead continues to discharge pollutants without a permit.

The expired permit had a maximum total leaf discharge limit of 0.2 mg/l to be monitored on a weekly grab basis. All of the DMR's submitted by U.S.S. Lead between September 1982 through and including June 1984 showed violations of the effluent limits for lead. The U.S. EPA compliance sampling inspections on January 10, 1984 and April 9-10, 1984 indicate the discharge lead concentration to be respectively, 1.43 mg/l, and 4.01 mg/l.

The expired permit required the permittee to notify in writing, the Regional Administrator and the State of Indiana of any permit violations within 5 days after learning of the violation. U.S.S. Lead has contacted neither the U.S. EPA nor the ISPCB of any of the aforementioned lead limit violations.

The expired permit further required U.S.S. Lead to take samples in compliance with the permit's monitoring requirements at a point representative of the discharge but prior to entry into the Grand Calument River. The permit's discharge limitations also required U.S.S. Lead to monitor the effluent flow. Both the January 10, 1984 and April 9-10, 1984, J.S. EPA plant inspections indicate that contrary to this permit requirement the U.S.S. Lead sampling point is neither an accurate for representative sampling location of the discharge. Both the January and April 1984 T.S. EPA inspections indicate that the current

U.S.S. Lead sampling point can be influenced by runoff from a battery storage area, runoff or leaching from an adjacent slag-filled area, boiler blowdown, or zaring low flow, leaching from sediments in the discharge area.

The flow measurement for the discharge is based only on an estimate of the process cooling water. Accordingly, the flow measurement calculations do not account for water due to store drain runoff or inflow, that is infiltrating to the drainage system, or boiler blowdows.

## A. Description of the Facility

U.S.S. Lead is located at 5360 Kennedy Avenue, East Chicago, Indiana 46312, phone number 219/397-1010; Mr. Donald J. Bidwell is listed as the Vice-President, General Manager of the company. The facility has annual sales of \$9-10 million; employs approximately 110 people; has about 70,000 square feet of floor space; and is owned by Sharon Steel Corporation. Sharon Steel Corporation's address is P.O. Box 291, Sharon, PA 16146; phone number 412/981-1375. Sharon Steel Corporation is in turn owned by the NVF Company, Yorklyn Rd., Yorklyn, Delaware 19736; phone number 302/239-5281. The NVF Company employs approximately 6,150 people and has assets of \$5,000,000,000.

## B. Source of Pollution

The facility is a secondary lead smelter using lead from old automobile and truck batteries and industrial lead scrap as it's raw material.

The process subdivides each cattery into it's primary 3

components (i.e., acid, lead cell, and casings). Then, each separate component is in turn handled as follows:

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- 1. The acid component is treated in a two stage system to remove lead and to control pH; the first stage settles out the lead; while the second stage adds sodium hyproxide to the acid to neutralize it to a pH around 7.0. The recovered lead is further processed via a mechnical and chemical operation which produces a high grade of reusable lead one and an acidic sludge. The sludge is disposed of properly under RCR4 as a hazardous waste.
- 2. The lead battery cells are removed and sent to the plant's blast furnace (according to a March 1984 Air Compliance inspection, the plant is in compliance).
- 3. The battery casings are separated by type, i.e., plastic or rubber, stored on site until enough have accumulated for shredding and then disposal.

Since this is not a continuous process, the unopened batteries and empty casings may be stored on the site for varying amounts of time. Both the January and April 1984, U.S. EPA inspections report that there may potentially be a problem from runoff due to this storage. During a forthcoming inspection, scheduled for later this year, samples can be cotained of the soil and surface waters in the battery storage area. The results from these samples can then be used to determine the extent of the potential problems which U.S.S. Lead could be asked to correct via modification of the relief sought.

Wastewater from the acid treatment system is discharged to the East Chicago WWTP. No adverse impacts from this discharge have been reported.

According to the plant engineer, Mr. R.D. Steels, discharge from outfall 001 consists of non-contact cooling water, storm water drains, and boiler blowdown. Casting house cooling water and storm drains combine with boiler house storm drains. The water then combines with cooling water from the furnace and is discharged without any treatment at discharge 001.

The facility's permit which expired in March 1980, required: flow measurement (when sampling): daily 24-hour composite sampling for total lead, arsenic, sulfate, flouride, and total suspended solids; and a daily grab sample for pH. The sampling frequency was changed to a weekly grab sample in a letter from the ISBH dated March 15, 1976.

The facility did not report any Effluent Monitoring Data between March 1981 and August 1982.

The analytical results of the samples taken during both the January 10 and April 9-10, 1984 inspections show that the facility exceeded its permit limits for lead of 0.2 mg/l. The January 10 result for lead was 1.43 mg/l. The April 9-10 result for lead was 4.01 mg/l. DMR's submitted by the facility show they exceeded the permit limits for lead during the months of May 1982 thru June 1984 inclusive.

The facility collects samples from outfall 001 in the channel after the water has left the discharge pipe. This sampling point could be influenced by run-off from the battery storage area, run-off or leaching from an adjacent slag filled area, builer blowdown, or at low flow, the discharge channel sediments. The samples taken curing the January 10th survey are from this sample point. The samples taken during the April 9-10th survey are from a man hale upstream of the discharge pipe and accurately reflect what is in the discharge pipe. (Attachments 4 and 5)

## C. Pollutants Involved; Environmental Harm

The serious and continuous level of lead discharged into the Grand Calumet River is causing irrefutable damage to the aquatic life in the vicinity of the U.S.S. Lead facility.

Standard acute data for lead on freshwater fish and invertebrate species, shows both acute and chronic toxicities on these groups. Freshwater algae are affected by high concentrations of lead. Delayed development, suppressed reproduction and inhibition of growth rate among fish, crab, polychaete worm and plankton are also caused by lead. Lead in man has been shown to cause adverse carcinogenic, tetratogenic, mutagenic, reproductive, renal, and cardiovacular effects.

## D. Remedial Action

The facility should isolate all of its once through cooling lines from any process contamination. Accurate total flow measurements should be made of the discharge. The discharge sampling point should be isolated in such a manner that it is not influenced by any other waters on sediments. In the near

future, the Army Corps of Engineers is planning to dredge all of the polluted sediments from the Grand Calumet River in the immediate area of U.S.S. Lead. Thus, until the actual credge work begins it will suffice to stop the current source of the toxicant's coming from U.S.S. Lead.

## V. Administrative and Enforcement History (State and Federal)

## A. Prior Attempts to Obtain Compliance

The State of Indiana, Indiana Stream Pollution Control Board issued a National Pollutant Discharge Elimination System (NPDES) Permit to U.S.S. Lead on June 15, 1975. This permit expired March 31, 1980, and a renewal application was not made until September 27, 1982, in violation of Section 301(a) the CWA, 33 U.S.C. §1311.

The NPDES Permit contained interim effluent limitations in effect on the date of issuance of the Permit until its expiration on March 31, 1980. Pertinent limitations included:

Effluent Characteristic	kg/day Daily Average	(lbs/day) Daily Maximum	Other Limitati Average	ons
Flow-M <sup>3</sup> /day (MGD)	· <b>-</b>	-	-	~,
Total Lead	-	-	- (	0.2 mg/l
Arsenic	-	-	- ]	.0 mg/l
Sulfate	*230(506)	*459(1012]	-	-
Fluoride	1.8(4.0)	3.6(3.6)	-	-
Total Suspended Solids	-	-	20 -;1	3_ mg/1

<sup>\*</sup>Net Values - above the background levels of the intake water. Intake water shall be monitored on daily basis by grad samples.

Additionally, the permit required flow measurement when sampling; daily 24-hour composite sampling for total lead, arsenic, sulfate, fluoride, and total susperced solids; and a daily grab sample for ph. The sampling frequency was changed to a weekly grab sample in a letter from the ISBH dated March 15, 1976.

The facility failed to report any effluent conitoring data between March, 1961, and August, 1982. Furthermore the Company's subsequently submitted Discharge Monitoring Reports (DMR) show that U.S.S. Lead consistently is in violation of the total lead limit and sampling requirements. Specifically, DMR's submitted by the facility show they exceeded the permit limits for lead during the months of: September 1982, thru June 1904 inclusive. (See Attachment 3)

The ISPCB initiated an enforcement proceeding against U.S.S. Lead for violations of Indiana Regulation 330 IAC 5 (failure to comply with the terms of the NPDES Permit) see Attachment 6. However, although the Notice of Hearing and Complaint were issued on April 3, 1984, on June 14, 1984, the State continued the preceedings indefinitely. Since that date the State has taken no further enforcement action nor entered into settlement negotiations with U.S.S. Lead.

On January 10, 1984, in response to a report of a duck kill in the vicinity of the L.S.S. Lead facility, a U.S. EPA inspection team was sent to investigate the site and sample the plant's

discharge and ditch on the west side of the plant. A report of the inspection by John McGuire, Environmental Engineer and Charles Steiner, Aquatic Biologist, is appended as Attachment 4.

On April 9-10, 1984, another U.S. EPA inspection team was sent to the site. A report of the inspection by John McGuire, Environmental Engineer, Sylvia Griffin, Physical Science Technican, and Mark Wehling, Engineer Trainee is appended as Attachment 5. Both inspections by U.S. EPA personnel substantiate the problems encountered by state inspections and cite the facility for exceeding the effluent limitations within its expired permit, discharging without a valid permit and improper sampling procedures. The analytical results of the samples taken during both the January 10 and April 9-10 inspections show that the facility exceeded its permit limits for lead of 0.2 mg/l. The January 10 result for lead was 1.43 mg/l. The April 9-10 result for lead was 4.0 mg/l.

#### B. Federal Enforcement

No federal enforcement was undertaken by the U.S. EPA prior to the issuance of this action. In light of the longstanding nature of this violation, and the necessity to bring U.S.S. Lead into compliance in an expeditious manner, this recommended federal enforcement action is appropriate. EPA will keep ISBH apprised of the progress of the suit, and afford the state appropriate opportunities to participate, if it so desires. Moreover, in this case, since the state already signaled its intent not to prosecute an eforcement action, issuance of an appripriative action would be pointless.

Region V submits that a civil action rather than an administrative action, is needed to address these problems.

## VI. REQUIRED ELEMENTS OF PROCE AND EVIDENCE

## A. Elements of Proof

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Because the instant case involves a violation of Section 301(a), 33 U.S.C. §1311(a), it will be necessary to prove that U.S.S. Lead discharged pollutants to navigable waters without a valid NPDES permit. The lack of a valid NPDES permit can be proven in a variety of ways, such as by affidavits from the custodians of records of EPA and the ISPCB, or if necessary through written interrogatories or requests for admissions. If U.S.S. Lead attempts to argue that its expired permit is valid, a prima facie case under the CAA for violation of NPDES permit terms and conditions is established by a showing of the following elements:

- The existence of an RPDES permit properly issued to the defendant;
- (2) The validity of the permit at the time of the alleged violations; and
- (3) Actions by the defendant that are contrary to the terms and conditions of the permit.

The fact that U.S.S. Lead was discharging lead in excess of its permit limits can easily be demonstrated by use of the submitted DMRS and inspection reports. If necessary additional facts may be secured through written interrogatories and requests for admissions. A field survey to collect additional samples is being arranged, and additional information may be available in one month or less.

## B. Evidence of Violation

Evidence to show that the company is presently discrarging without a valid NPDES Permit can be easily presented by intro-ducing the expired permit and the present application for a permit to discharge.

EPA presently has two inspection reports (See Attobuents 4 and 5) concerning inspections by EPA personnel. The analytical results of the samples taken during both the January 10 and April 9-10 inspections show that the facility exceeded its permit limits for lead of 0.2 mg/l. The January 10 result for lead was 1.43 mg/l. The April 9-10 result for lead was 4.0 mg/l.

We feel there is evidence to fully support this action. A forthcoming field survey can be used to supplement this data, but is not required to show proof of violation.

## C. Discovery

Most of the evidence necessary to prove this case can be obtained from documents presently on file with EPA. We feel that there is currently enough evidence to fully support this action. Another field survey will be done to supplement the current data in the near future. EPA should be able to obtain whatever additional information is necessary concerning the quantity of lead discharges from answers to interrogatories, requests for production of documents, and requests for acmissions.

#### D. Evidence of Environmental Harm

The lead water quality standard, for the control of the roter under discussion, is less than 0.05mg/l. ...S.S. lead is violating this standard by discharging up to 4.01 mg/l of lead. Discharges

of lead of this concentration level into the environment can be very harmful.

## E. Evidence Favorable to the Violator

There does not appear to be any evidence favorable to the violator.

## F. Government Witnesses

The following U.S. EPA Region V, personnel are available to provide fact and expert testimony or introduce documents in this projected civil action.

General Permit Requirements Kenneth A. Fenner Chief, Water Quality Branch Water Division, Region V

Effluent limitation for outfall 001 on the basis of data gathered during U.S. EPA inspections

John McGuire Environmental Engineer Environmntal Services Division

Permit effluent limitation violation on the basis of monthly discharge reports

Ronald D. Kovach Environmental Scientist Water Division

To testify to the environmental damage due to high lead concentrations

Charles Steiner Aquatic Biologist Central Regional Laboratory

## G. Defense Witnesses

It is unknown what witnesses U.S.S. Lead would produce, or upon what defenses U.S.S. Lead will attempt to rely.

#### H. Resource Needs

Due to the clear-cut nature of the violations in this case, the settlement potential could be excellent. Even if trial is required, it is not anticipated that a substractial expenditure of Regional resources will be required. The case will require devotion of probably less than one-eighth work year of Regional Counsel and one-eighth work year of Water Division staff time.

## VII. THE RELIEF SOUGHT.

The attached draft Complaint, Attachment 1, seeks the following relief against U.S.S. Lead:

- a preliminary and permanent injunction to restrain present and future violations of U.S.S. Lead's NPDES Permit, or any successor Permit, and all applicable provisions and sections of the CWA and state regulations;
- 2) an Order requiring U.S.S. Lead to comply with the final effluent limits, and sampling procedures contained in U.S.S. Lead's NPDES Permit.
- 3) an Order requiring U.S.S. Lead to initiate proper operations and maintenance procedures to ensure the proper operation of the facility;
- 4) a civil penalty in the amount of \$10,000 per day for each day of violation of the terms and conditions of Indiana NPDES Permit No. 1ND032425.
  VIII. ANTICIPATED ISSUES

#### A. Possible Defenses

V.S.S. Lead may attempt to argue that its expired permit is valid pending acceptance of its present permit application. This argument is without merit. U.S.S. Lead is discharging without a valid permit. In addition, information presently available indicates U.S.S. Lead has consistently and continuously violated the effluent limits for lead contained in its expires permit.

1.S.S. Lead might claim that it is economicially infeasible for it to achieve applicable effluent limitations. However, reviewing

in water pollution cases. See National Association of Metal

Finishers v. Environmental Protection Agency, 718 F.2d 624 (3d Cir. 1983).

## B. Equitable Arguments

U.S.S. Lead does not appear to have any equitable arguments. As a result of U.S. EPA inspections on Jan. 10, and April 9-10, 1984, EPA was apprised of the unpermitted discharge by U.S.S. Lead. After the ISPEE indicated that it did not intend to bring any further enforcement action, EPA acted promptly to address the unpermitted discharge so the equitable doctrine of laches would not apply. There has been no inexcusable delay in asserting a claim. See State of Michigan v. City of Allen Park, 501 F.Supp. 1007 (E.D. Mich. 1980).

## C. Pending Related Adminstrative or Court Action

Although technically there is a pending administrative action with the Indiana Stream Pollution Control Board, the State has indicated that no additional action will be taken relating to the instant case.

## D. Practical Problems

Due to the small size of the pollution source, it is possible that a court would rit be sympathetic to requests for substantial penalties. However, due to the threat to the environment presented by this discharge, it should be possible to obtain injunctive relief, even if the lount is inclined to impose less than substantial penalties.

## IX. LITIGATION STRATEGY

## A. Other Potential Defendants

U.S.S. Lead is a relatively small commany. In the event that it has insufficient financial resources to accomplish necessary action, it might be appropriate to name Sharon Steel Company, owner of U.S.S. Lead, as a defendant and/or the NVF corporation. Action against Dorald J. Bidwell, Vice-President and General Manager might also be appropriate if it appears that U.S.S. Lead's unpermitted discharges were the result of his willfulness or negligence.

## B. Jurisdiction and Venue

The United States District Courts have jurisdiction over this action pursuant to 33 U.S.C. §1319(b) and 28 U.S.C. §1345. Venue is proper in the United States District Court for the Northern District of Indiana, pursuant to 28 U.S.C. §1391(b), because that is the judicial district where the defendant resides and the cause of action accrued.

## C. Potential for Summary Judgment

The violations in the case are clear-cut, and there do not appear to be any real issues of material fact. Therefore, a motion for summary judgment by the inited States would probably be successful, if the case is not settled.

## D. Related Violations

EPA is currently unaware of related violations of other environmental statutes by U.S.S. Lear.

## E. Additional Compliance Mechanisms

A judicially enforceable consent decree placing U.S.S. Lead on a schedule for coming into compliance and providing for civil penalties is probably the best way to bring U.S.S. Lead into compliance. U.S. EPA believes that an Administrative Order would not be an effective enforcement vehicle due to the need to impose civil penalties for the 2-year period during which U.S.S. Lead was not in compliance.

## F. <u>Settlement\_Potential</u>

Due to the clear-cut nature of the violations, the relatively simple corrective action the company should take to achieve compliance and the potential for substantial civil penalties being levied, the settlement potential of this case is fairly high.

## RDEX OF ATTACHMENTS

- 1. Draft Complaint
- 2. NPDES Permit INOO32425
- 3. Discharge Monitoring Reports
- 4. Inspection Report by John McGuire and Charles Steiner, EPA, concerning January 10, 1984 inspection
- 5. Inspection Report by John McGuire; Sylvia Griffin, and Mark Wehling, EPA, concerning an April 9-10, 1984 inspection
- Notices of Hearing and Complaint and Notices of Continues ISPCB

## IN THE UNITED STATES DISTRICT COURT FOR THE NORTHERN DISTRICT OF OHIO EASTERN DIVISION

UNITED STATES OF AMERICA,	)
Plaintiff,	)
ν.	CIVIL ACTION NO.
UNITED STATES SMELTING LEAD REFINERY, INC.	) )
Defendant.	) )

#### COMPLAINT

Plaintiff, the United States of America, by its undersigned attorneys and at the request of the Regional Administrator, Region V, of the United States Environmental Protection Agency, prings this action against the United States Smelting Lead Refinery (U.S.S. Lead) doing business in East Chicago, Indiana, and alleges:

- l. This is a civil action to recover civil penalties from Defendant, U.S.S. Lead, for violations of the Clean Water Pollution Control Act, as amended, CWA 33 U.S.C. \$1251, et seq. and the terms of National Pollutant Discharge Elimination System (NPDES) permit No. IN0032425. This action also seeks to enjoin the Defendant from violating the Act and the regulations promulgated thereunder.
  - 2. This Court has jurisdiction over this action under 28. S.C. \$1345 and Section 309(b) of the Act, 33 U.S.C. \$1319(b).

- 8. The aforementioned permit, IN 0032425, issued June 15, 1975 expired March 31, 1980. U.S.S. Lead did not request a renewal of the permit until September 27, 1982. U.S.S. Lead has continuously discharged pollutants since its permit expiration in violation of Section 301(a) of the Act, 33 U.S.C. \$1311(a).
- 9. Some of the pollutants discharged by U.S.S. Lead are toxic pollutants within the meaning of Section 301(b)(2)(C) of the Act, 33 U.S.C. \$1311(b)(2)(C). The discharge of these pollutants presents a particularly acute threat to the environment.
- 10. Unless relief is granted by the court, Defendant will continue to violate the Federal Water Pollution Control Act, as amended, in the operation and ownership of the above-described lead refinery facility.

Wherefore, Plaintiff, United States of America, prays that:

- a. Defendants be permanently enjoined under Section 309(b) of the CWA, as amended, 33 U.S.C. \$1319(b), and the Court's general equity power, from operating its lead refinery except in accordance with the CWA and the regulations promulgated pursuant thereto;
- b. Defendants be ordered to perform testing and analyses of its effluent as expeditiously as practicable and report the results to EPA, and to take such other affirmative action as is necessary to operate its plant in compliance with the CWA and

other applicable statutes and regulations.

- c. That the Court order Defendant to pay a civil penalty of \$10,000 per day of violation;
- d. That the Court order the Plaintiff to recover from the Defendant the cost of such action; and
- e. That the Court grant such other relief that the Court deems just and proper.

Respectfully submitted,

Page 1 of 9

Permit No. IN 0032425

Application No. 1N 0032425

## INDIANA STREAM POLLUTION CONTROL BOARD

## AUTHORIZATION TO DISCHARGE UNDER THE

#### NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provisions of the Federal Water Pollution Control Act, as amended, (33 U.S.C. 1251 et seq., the "ACT"), and Public Law 100, Acts of 1972, as amended, (IC 1971, 13-7, et. seq., the "Environmental Management Act"),

U.S.S. Lead Refinery, Incorporated

is authorized to discharge from a facility located at

5300 Kennedy East Chicago, Indiana

to receiving waters named

Grand Calumet River

in accordance with effluent limitations, monitoring requirements and other conditions set forth in Parts I and II hereof.

The permit shall become effective on June 15, 1975.

This permit and the authorization to discharge shall expire at midnight, March 31, 1980. In order to receive authorization to discharge beyond the date of expiration, the permittee shall submit such information and forms as are required by the Indiana Stream Pollution Control Board no later than 180 days prior to the date of expiration.

Signed this day of Jul. 1975, for the Indiana Stream Pollution Control Board.

Technical Secretary

Permit No. IN 0032425

#### PART I

## A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning with the effective date of this permit and lasting until the expiration date the permittee is authorized to discharge from outfall() 001 . Such discharge shall be limited and monitored by the permittee as specified below:

#### Discharge Limitations

Effluent Characterist	· · · · · · · · · · · · · · · · · · ·	(1bs/day) Daily <u>Maximum</u>	Other Limitar Average	tions	Monitoring Measurement Frequency	Requireme Sample Type
Flow-M <sup>3</sup> /day (MG	D) -	-	-	•	monitor whe	`
Total Lead	-	•	- 1	0.2 mg/l	daily 24-h	r. composi
Arsenic	-	<b>-</b>		1.0 mg/l	daily 24-h	r. composi
Sulfate	*230(506) *4	159(1012)	-	-	daily 24-h	r. composi
Fluoride	1.8(4.0)	3.6(8.0)	1. <b>-</b> 1.5	<b>-</b> .	daily 24-h	r. composi
Total Suspended	Solids -	-	20 mg/l	30 mg/l	daily 24-h	r./composi

<sup>\*</sup>Net Values - above the background levels of the intake water. Intake water shall be monitored on daily basis by grab samples.

- a. The pH shall not be less than 6.0 nor greater than 9.0 . The pH shall be monitored as follows: daily by grab sampling
- b. The discharge shall not cause excessive foam in the receiving waters. The discharge shall be essentially free of floating and settleable solids.
- c. The discharge shall not contain oil or other substances in amounts sufficient to create a visible film or sheen on the receiving waters.
- d. Samples taken in compliance with the monitoring requirements above shall be taken at a point representative of the discharge but prior to entry into the Grand Calumet River.

PART I

Page 3 of 9

Permit No. IN 0032425

#### B. MONITORING AND REPORTING

1. Representative Sampling

Samples and measurements taken as required herein shall be representative of the volume and nature of the monitored discharge.

#### 2. Reporting

The permittee shall submit monitoring reports to the Indiana Stream Pollution Control Board containing results obtained during the previous month and shall be postmarked no later than the 28th day of the month following each completed monitoring period. The first report shall be submitted by July 28th June, 1975 for the month of\_

The Regional Administrator may request the permittee to submit monitoring reports to the Environmental Protection Agency if it is deemed necessary to assure compliance of the permit.

#### 3. Definitions

## a. Daily Average

- 1. Weight Basis The "daily average" discharge means the total discharge by weight during a calendar month divided by the number of days in the month that the production or commercial facility was discharging. Where less than daily sampling is required by this permit, the daily average discharge shall be determined by the summation of the measured daily discharges by weight divided by the number of days during the calendar month when the measurements were made.
- 2. Concentration Basis The "daily average" concentration means the arithmetic average (weighed by flow value) of all daily determinations of concentration made during a calendar month. Daily determinations of concentration made using a composite sample shall be the concentration of the composite sample. When grab samples are used, the average (weighed by flow value) of all the samples collected during the calendar day.

## "Daily Maximum" Discharge

- Weight Basis the "daily maximum" discharge means the total. discharge by weight during any calendar day.
- Concentration Basis the "daily maximum" concentration means the daily determination of concentration for any calendar day
- c. The Regional Administrator is defined as the Region V Administrator, U. S. EPA, located at 230 South Dearborn Street, Chicago, Illinois 60 353-2000

d. The Indiana Stream Pollution Control Board is located at the followin address; 1330 West Michigan Street. Indianapolis. Indiana 46206.

PART I

Page 4 of 9

Permit No. IN 0032425

#### 4. Test Procedures

Test procedures for analysis of pollutants shall conform to regulations published pursuant to Section 304 (g) of the Act, the most recent edition of "Standard Methods for the Examination of Water and Wastewater," or other methods approved by the Indiana Stream Pollution Control Board, under which such procedures may be required.

## 5. Recording of Results

For each measurement or sample taken pursuant to the requirements of this permit, the permittee shall record the following information:

- a. The exact place, date, and time of sampling;
- b. The dates the analyses were performed;
- c. The person(s) who performed the analyses;
- d. The analytical techniques or methods used; and
- e. The results of all required analyses.

## 6. Additional Monitoring by Permittee

If the permittee monitors any pollutant at the location(s) designated herein more frequently than required by this permit, using approved analytical methods as specified above, the results of such monitoring shall be included in the calculation and reporting of the values required in the Indiana Stream Pollution Control Board Monthly Monitoring Report. Such increased frequency shall also be indicated.

#### 7. Records Retention

All records and information resulting from the monitoring activities required by this permit including all records of analyses performed and calibrati and maintenance of instrumentation and recording from continuous monitoring instrumentation shall be retained for a minimum of three (3) years, or longer if requested by the Regional Adminstrator or the Indiana Stream Pollution Control Board.

Page5 of 9

Permit No. IN 0032425

#### PART II-

#### A. MANAGEMENT REQUIREMENTS

## 1. Change in Discharge

All discharges authorized herein shall be consistent with the terms and conditions of this permit. The discharge of any pollutant identified in this permit more frequently than or at a level in excess of that authorized shall constitute a violation of the permit. Any anticipated facility expansions, production increases, or process modifications which will result in new, different, or increased discharges of pollutants must be reported by submission of a new NPDES application or, if such changes will not violate the effluent limitations specified in this permit, by notice to the permit issuing authority of such changes. Following such notice, the permit may be modified to specify and limit any pollutants not previously limited.

#### 2. Containment Facilities

The permittee shall provide approved facilities for containment of any accidental losses of cyanide or cyanogen compounds in accordance with the requirements of the, Stream Pollution Control Board, Regulation SPC-2.

#### 3. Operator Certification

The permittee shall have the waste treatment facilities under the direct supervision of an operator certified by the Indiana State Health Commissioner as required by Acts of 1967, Chapter 273, as amended, (IC 1971, 13-1-6).

#### 4. Noncompliance Notification

If, for any reasons, the permittee does not comply with or will be unable to comply with any daily maximum effluent limitations specified in this permit, the permittee shall provide a Regional Administrator and the State of Indiana with the following information, in writing, within five (5) days after becoming aware of such condition:

- a. A description of the discharge and cause of noncompliance; and
- b. The period of noncompliance, including exact dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate and prevent recurrence of the noncomplying discharge.

#### Facilities Operation

The permittee shall at all times maintain in good working order and operate as efficiently as possible, all treatment or control facilities or systems installed or used by the permittee to achieve compliance with the terms and conditions of this permit.

PART II

Page 6 of 9

Permit No. IN 0032425

## Adverse Impact

The permittee shall take all reasonable steps to minimize any adverse impact to navigable waters resulting from noncompliance with any effluent limitations specified in this permit, including such accelerated or additional monitoring as necessary to determine the nature and impact of the noncomplying discharge.

## 7. By-passing

Any diversion from or by-pass of facilities necessary to maintain compliance with the terms and conditions of this permit is prohibited, except (i) where unavoidable to prevent loss of life or severe property damage, or (ii) where excessive storm drainage or runoff would damage any facilities necessary for compliance with the effluent limitations and prohibition of this permit. The permittee shall promptly notify the Indiana Stream Pollution Control Board and the Regional Administrator, in writing, of such diversion or by-pass.

## 8. Removed Substances

Solids, sludges, filter backwash, or other pollutants removed from or resulting from treatment or control of wastewaters shall be disposed of in a manner such as to prevent any pollutant from such materials from entering navigable waters and to be in compliance with all Indiana statutory provisions, regulations, relative to refuse, liquid and/or solid waste disposal.

#### 9. Power Failures

In order to maintain compliance with the effluent limitations and prohibitions of this permit, the permittee shall either:

- a. Provide an alternative power source sufficient to operate facilities utilized by permittee to maintain compliance with the effluent limitations and conditions of this permit which provision shall be indicated in this permit by inclusion of a specific compliance date in each appropriate "Schedule of Compliance for Effluent Limitations", or
- b. Upon the reduction, loss, or failure of one or more of the primary sources of power to facilities utilized by the permittee to maintain compliance with the effluent limitations and conditions of this permit, the permittee shall halt, reduce or otherwise control production and/or all discharge in order to maintain compliance with the effluent limitations and conditions of this permit.

PART 11

Page 7 of 9

Permit No. IN 0032425

#### B. RESPONSIBILITIES

## 1. Right of Entry

The permittee shall allow the Technical Secretary of the Stream Pollution Control Board, the Regional Administrator and/or their authorized representatives, upon the presentation of the credentials:

- a. To enter upon the permittee's premises where an effluent source is located or in which any records are required to be kept under the terms and conditions of this permit; and
- b. At reasonable times to have access to and copy any records required to be kept under the terms and conditions of this permit; to inspect any monitoring equipment or monitoring method required in this permit; and to sample any discharge of pollutants.

## 2. Transfer of Ownership or Control

In the event of any change in control or ownership of facilities from which the authorized discharge emanate, the permittee shall notify the succeeding owner or controller of the existence of this permit by letter, a copy of which shall be forwarded to the Indiana Stream Pollution Control Board and the Regional Administrator.

#### 3. Availability of Reports

Except for data determined to be confidential under Section 308 of the Act and as stated in Section 10, of Stream Pollution Control Board Regulation SPC-15 under the authority of IC 1971, 13-7 as amended, all reports prepared in accordance with the terms of this permit shall be available for public inspection at the offices of the State Water Pollution Control Agency and the Regional Administrator. As required by the Act, effluent data shall not be considered confidential. Knowingly making any false statement on any such report may result in the imposition of criminal penalties as provided for in Section 309 of the Act and Section 360, Chapter 13, Public Law 100, Acts of 1972 as amended, (IC 1971, 13-7).

#### 4. Permit Modification

After notice and opportunity for a hearing, this permit may be modified suspended, or revoked in whole or in part during its term for cause including, but not limited to, the following:

- a. Violation of any terms or conditions of this permit;
- h. Obtaining this permit by misrepresentation or failure to disclose fully, all relevant facts; or
- c. A change in any condition that requires either a temporary or permanent reduction or elimination of the authorized

PART II

Page B of 9

Permit No. IN 0032425

#### 5. Toxic Pollutants

Notwithstanding Part II, B-4 above, if a toxic effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is established under Section 307(a) of the Act for a toxic pollutant which is present in the discharge and such standard or prohibition is more stringent then any limitation for such pollutant in this permit, this permit shall be revised or modified in accordance with the toxic effluent standard or prohibition and the permittee so notified.

## 6. Civil and Criminal Liability

Except as provided in permit conditions on "By-passing" (Part II, A-7) and "Power Failures" (Part II, A-9), nothing in this permit shall be construed to relieve the permitte from civil or criminal penalties for noncompliance, whether or not such noncompliance is due to factors beyond his control, such as accidents, equipment breakdowns, or labor disputes.

## 7. Oil and Hazardous Substance Liability

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under Section 311 of the Act.

## 8. State Laws

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable State law or regulation under authority preserved by Section 510 of the Act.

#### 9. Property Rights

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor infringement of Federal, State or local laws or regulations.

#### - 10. Severability

The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstances, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

September 10, 1982

Hr. Joseph Stallsmith State Board of Health 1330 West Michigan Street P. O. Box 1964 Indianapolis, Indiana 46206

ATTENTION: MR. JOSEPH STALLSMITH

SUBJECT: RENEWAL OF NPDES PERMIT NO. 0032425

Dear Mr. Stallsmith:

On Thursday, September 9, 1982, at 2:30 p.m. we were visited by Mr. Dick Cleaton, your Industrial Wastewater Inspector for this district. We were challenged by him regarding our apparent disorganization on the renewal of our NPDES Permit and the monthly water reports that are to be submitted to your office. We showed Mr. Cleaton a copy of the KPDES forms that had been mailed to your Permits Section along with a check in the amount of \$150.00 for the fee. Water samples have been taken and sent to our laboratory. Monthly water reports will be submitted to you as required.

For the past two years, cutting back and changes in responsibilities obviously resulted in a lack of communication. In an effort to rectify this metter, we have enrolled our Maintenance Supervisor, Anthony Traicoff, in Ivy Tech for Wastewater treatment certification classes in preparation for the state exam to be given in South Bend this fall.

We anticipate this putting an end to any future problems involving permits and water samples and look forward to working with your department.

Very truly yours,

R. Derek Steels Plant Engineer

# 11,S.S. LEAD REFINERY, INC. SUBSE LARY OF SHARON STEEL CORPORATION - AN QUE COMP.

2300 Kennedy Avenue, East Chicago, Indiana 46312 Telephones (219) 397-1012 (312) 731-0500

September 27, 1982

Mr. Larry J. Kane Chief, Permit Section Division of Water Pollution Control Indiana State Board of Health 1330 W. Michigan, P. O. Box 1964 Indianapolis, Indiana 46206

Dear Mr. Kane:

Enclosed please find Form No. 1 of our renewal application for NPDES Permit No. IN0032425, which was inadverently omitted from our application forwarded to you September 8, 1982.

Also enclosed please find Plan No. Y90 of the plant site, showing general location, and Plan No. Y89 showing the storm and sanitary sewers. These are included in accordance with Item XI and after a telephone discussion with your Mr. Steve Roush, who felt that these would be more helpful than a U. S. Geological Survey map.

Please contact me if there are any further requirements to complete this application.

Very truly yours,

R. D. Steels

RDS:sr Enclosures

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treatment, storage, or disposal facilities, and each well where it is	injects fluids underground. Include all springs, rivers and other surf
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XIII. CERTIFICATION (see instructions)	
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attachments and that, based on my inquiry of those persons in	immediately responsible for obtaining the information contained in
application, I believe that the information is true, accurate and of false information, including the possibility of fine and imprisonments.	complete. I am aware that there are significant penalties for submit
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A or 8 above? (FORM 2C)	4 1		waters of the U.S.? (FORM 2D)  F. Do you or will you inject at this facility industrial or
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SHEET 1 OF 2

U.S.S. Lead Refinery, Inc. (5300 Kennedy Avenue East Chicago, Indiana 46312 FLEASE COMPLETE AN JBMIT TWO COPIES AT THE FIND OF EACH MONTH. THIS REPORT MUST REACH THE STREAM POLLUTION CONTROL BOARD OFFICE BY THE 28TH OF THE FOULOWING MONTH.

: seiner 9/20/84

01 6 3 1 2 1 4 1 2 15 (1-7) PERMIT NUMBER (B-10) OUTFALLI FAC. NO. 016 3 14 (11-72)(13-14) MO. YR. ENTER:

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			╂	}	<del>                                     </del>	<del> </del>	<del></del>	<del> </del>	····	<del> </del>
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			-	+	<del> </del>	<del> </del>		<del>                                     </del>		<del> </del>
(26)	<del></del>	0.50	7.	<u>†</u> —	0.52	<del></del>	0.4	<del> </del>	<del> </del>	<del></del>
. 27			-	<del>-</del>	-	<del>                                     </del>	<del> </del>	<del> </del> -	<del>-</del>	<del> </del>
			+-	<del></del>	<del> </del>	<del></del>				+
28		0 /0	1	<u> </u>	- /-	1	1	<del> </del> -	}	<del> </del>
( 29		0.40	5,	1	:.47	1 :	0.2	<del> </del>	<del> </del>	<del> </del>
30				1	<del> </del>	<del></del>		<del></del>	<del> </del>	<del> </del>
31			1	<del>`</del>	1 7 /6		10.22	}	1	<del>                                     </del>
AVERAGE	(29-36)		+=	$\Leftrightarrow$	2.45	1	0.27	<del>                                     </del>	<del> </del>	<del> </del>
CHEST VALUE OF NO			7.		3.52	<del>!</del>	0.4	<del> </del>	<del> </del>	<del> </del>
OWEST VALUE OF MON	TH (45-52)	•:	<b>∤</b> ≃	£.8	5.40	<del> </del>	0.2	4	<del> </del>	<del> </del>
NO. OF THES MAX. EFF	LUENT D (53-54)		1.		4	<u> </u>	1000	72		• • •

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(SC) (SIGNATONE OF PRINCIPAL EXECUTIVE

# RELATION OF THE STATE OF THE STATE OF THE

30

5 - WATER

U. S. S. Lead Refinery, Inc. 1300 Kennedy Avenue East Chicago, Indiana 46312 111717 2 or 2

PLEASE COMPLETE AND SUBMIT THO COPIES AT THE KND COEACH MONTH THIS PERORT MUST BEACH THE STREAM FOR LUTION CONTROL BOARD OFFICE BY THE SETH OF THE FOLLOWING MONTH.

1 N 0,0,3,2,4,2,5

CG CJ

TAC. NO.

D16314 (13-12) (13-14) MO. YR.

1 for NYDES 2 for SPC-15 1

ENTER:

(25) (25)

Sulfate Fluoride Total Sus. Solies EFFLUENT CHARACTERISTICS <u>,007-5</u> <u>c0095</u> <u>c.</u>..: EFFLUENT NO. (17-21)CR Permit Cand. CR. SAMPLE TYPE GR (22-23)Manitered CR GR GR Fermit Coad. 1/7 1/7 1/7 FREQUENCY (24-28)1/7 1/7 1/7 505 becattank 4 **EFFLUENT** Daily Ave. (29-35) 20 LIMITATIONS Daily 25 (37-44) 1012 8 30 ٠ UNITS E.E.A Dicky 1\2ct Biller m.ε /λ To /Zay E-E/3 BISLY DATE 3 2 - .-4 6 7 . 9 10 11 (2)2) 12.51 1,75 - 32 1234 £= 35 4 : je: 4. W-EIN 16\_69 2.67 2**6**000 20 21 22 23 24 25 29.20 (26) 3.75 15 27 28 29 } 20, 20 2.67 4.1 30 31 47.25 45.5 (05-36) 19.60 12,5 <del>2 - 71</del> RIGHEST VALUE OF MONTH (37-44) 29.20 3,75 15 LOWEST VALUE OF HONTH (45-52) 12.51 ٠2٠ 4.75 NO. OF TIMES MAX, EFFLUENT 0 LIMITATIONS EXCREDED (13-14) Ω D

U. S. S. Lead Refinery, Inc. 5300 Kennedy Avenue East Chicago, Indiana 46312

FLEASE COMPLETE AN JEMIT TWO CUPIES AT THE END OF EACH MONTH, THIS REPURT MUST REACH THE STREAM FOULUTION CONTROL BOARD OFFICE BY THE VETT OF THE FOULOWING MONTH.

PERMIT NUMBER

(8-10) OUTFALLI

HO. YR.

1 for NPDES 2 for SPC-15

ENTER:

4-FEDERAL

FERMIL NUMBE	FAC. )	NO	<i>.</i>	YR.		•	. 5	15)	(25)	5-WATER S
EFFLUENT CHARACTERISTICS		FLOW PH		hea I	Lead		nic			
EFFLUENT NO.	(27-21)	50050	- 00		_	Q	c 01000			1
SAMPLE TYPE	Permit Cond.		GR	-	GR		GR :	×		
(22-23)	Monliored		GR		GR		GR	,		
FREQUENCY	Permit Cond.		1/7		1/7		1/7	,		
(24-28)	Monitored		1/7		1/7		1/7			1
	Dally Avg. (24-36)	none					1			11
1	Dilly Max. (37-44)		6-0-	-9-0	0_2		1.0			
DATE	UNITE	MGD ·		FOR	mt fi	To/day	mtfl	Ib/day	,	-
	1		{							1
			<del> </del> -							1
	2		<b>}</b>			<u> </u>	1			<del>}</del> }
	3			_				· · ·		<del> </del>
	<u>4</u>		1-	}	<del></del>		·]·			<del> </del> -···
	6)	0.03	6.6		0.44		0.3		<del></del>	<del> </del>
<u> </u>	7 .	C.0.0	1	1		<del> </del>	1			<del> </del>
			1.	-	<b> </b>					<del>                                     </del>
<i></i>		<u> </u>	<del>i                                     </del>	-		<del></del>				<del> </del>
\ <del></del>	9	0.03	6.5		0.50		0.3			1
	(0)	0.03	1	1	0.50		0.3			<del> </del>
	11		+	<del>                                     </del>	<del>                                     </del>	<del> </del>	<del>                                     </del>			<del> </del>
· 1		<u> </u>	<del> </del>	┼	<del> </del>			<del>                                     </del>		
	13	<del> </del>	÷	<del> </del>	<del> </del>	<del> </del>				+
			1.	-	<del> </del>	<del>                                     </del>	<del>- </del>	-	<del> </del>	-
	15	<del></del>	1	-	<del> </del>	<del> </del>	<del> </del>	<del> </del> -	<b></b> -	<del>  </del>
	17)	0.04	6.	-	0.49	<del> </del>	7.4			
		0.04	10-	7	0.47	<del> </del>	<del> </del>	<del></del> -		
			1	╁	<del> </del>	<del>                                     </del>			•	<del> </del>
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	21 22	<del> </del>	1-		<del> </del>	<del>                                     </del>	<del>                                     </del>	1 700;	<del></del>	<del></del>
	22 23	<del> </del>	+-	+-	<del>                                     </del>	<del> </del>	<del>                                     </del>	-~ Q	<b></b>	·t
		<del>                                     </del>	1	1-	1	<del>                                     </del>			\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	1 -
	24 25	1.	+	1	<del>                                     </del>	<del>                                     </del>	•	1 27.2	=	+
	26	<del>                                     </del>	+	† –	1	<del>                                     </del>	<del></del>	202	T	<b>†</b> · · · · ·
	77	1	1	1		1	1	1	F	
	28 .	1	i	1	1	<del>                                     </del>	<del>                                     </del>	<del>                                     </del>	i	1
<u> </u>	29 )	0.03	15.	7:1	2.47	<del>                                     </del>	7.4	<del> </del> -	1	<del></del>
	30	1	<del>                                     </del>	<del>i</del>	1	<del>                                     </del>	1	<del>! .</del>	<del>                                     </del>	<del></del>
	31	1	1	i	1	<del>                                     </del>	1	<del>†</del>	1	1
AVERAGE	(25-36)	0	1	<del></del>	9.47	<del>;</del>	0.35	i	i –	1
	OF MONTH (37-44)	<del></del>	1=	ाड्रे	0.50	<del>                                     </del>	0.4	<del>                                     </del>	<del>                                     </del>	<del>                                     </del>
			$\rightarrow$		2.44	<del>i</del>	0.3	-	<del>i                                    </del>	<del> </del>
	OF MONTH (45-52)		1	<u>`</u>		<del>                                     </del>		<del></del>	<del>                                     </del>	<del>                                     </del>
NO OF TIMES ME LIMITATIONS EX	(X. EFFLUENT CLEBED (53:54)	.9	0	•	4	1	12		12	

(SIGNATURE OF CERTIFIED OPERATOR (55)

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u. S. S. Load Refinery, Inc. 300 Hemnedy Avenue East Chicago, Indiana 46312 100 LT 2 \_\_ or \_\_2

PLEASE CONSIDER AND SUBMIT THO FORES AT THE AND OF TACH MONTH THIS PERDET MUST REACH THE STREAM FOR JUTION CONTROL FOARD OFFICE BY THE 15TH OF THE FOULDWING MONTH.

1 15 0,0,3,2,4,2,5

GG1 (E-10) OUTFALL/ FAC. NO. 03-12) (03:4)

MO. YR.

ENTER:

1 fer NFDES 2 for SFC-15 ENTER:

1-INDUST 4-FEDREA 5-WATER

	FAC. NO.				(3) (3) (16)					
EFFLUENT CHA	EACTERISTICS	Sulfa	te	Flee	rice		us.Soli	s		
EFFLUENT NO.	()7-21)	С	\$£900 \$	c	c00951	c	Q	C	To	
SAMPLE TYPE	Permit Cond.		GR_		GR	CR.	]			
(22-23)	Monficred		CR		l ca	GB	J		7	
FREQUENCY	Fermit Cond.		1/7	·	1/7	1/7	1		1	
(24-28)	Mentioned		1/7		1/7	1/7	1		i——	
EFFLUENT	Dally Avg. (29-36)	_ <del></del>	505		1	20		``	1	
LIMITATIONS	Dally 2. (37-44)		1012		1 8	30	,		j	
DATE	UNITS	n.g/ <u>I</u>	Dičer	1=5/ <u>T</u>	Dicky	r.t/I	To/day	mε/I	Bley	
	1		}	Ì						
	2 >			Í	1	1		-	1	
	3		<u>i — —                                   </u>	i -	j	1		í	1	
<del></del>	4		<u> </u>	í	T	1			1	
	5	1	í——	1	<u> </u>	<u> </u>	<u> </u>		<u> </u>	
	s)		2,00	í	0.2	14	1	<del></del>	<del></del>	
	<del></del>		i i	i	7 <del></del> -	1	1	i	1	
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	9	1	<del> </del>	<b>'</b> -	1	մ <u>՝</u> —	╁	<u> </u>	<del> </del>	
	0)	<u> </u>	1.25	<b></b>	0.17	10	<del>↑</del>	i	<del></del>	
<del></del>	1	{	1	{	<u> </u>	1	-{	-	-	
	2	<del> </del>	<del> </del>	<del> </del>	┨	<del> </del>			<del></del>	
	3	· · · · ·	1	i	<u> </u>	1	i		- <del> </del>	
	4	{	<u> </u>	<del></del>	<del></del>	1	<del>                                     </del>		<del></del>	
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	6 •	1	1	†	-i	1 .	<u> </u>	<del>                                     </del>	·	
	7)		2.00	1	0.23	16	1	i	+	
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	9	ì	Ť T	i i	<del>                                     </del>	i	7	<del>}</del>	<del></del>	
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	:7	]	1	7	i	<u> </u>	· · · · ·	1	-i	
	8	1		.]		7		1		
	9 )	1	2.67	1	1.0.20	12	1	1		
	0	1		1		1	7			
	1	Î .	1	<u> </u>	]	j	-	1		
ALTRACE	(25-36)	1	1.98		2.70	]13	7	1	7	
HIGHE: T VALUE			2.67		0:23	16	1	,	7	
LOWELT VALUE C		·1 · · · · · · · · · · · · · · · · · ·	1.25	7	0 = 7	10		1	1	
NO. OF TIMES MA			7			7	1		<del></del>	
PROTATIONS EXC			: 0	<b>†</b> • •	0	. 0				

# NEIGHAS FREAM POLLUTION CONTROL POARD MONTHLY MONETORING (DMR) FORMS REPOLT FOF SPC-15 OR NPDES DISCHARGE PE( 1TS 33

	~		~	
SHEET		OF_	۷.	

U. S. S. Lead Refinery, Inc. 1300 Hennedy Avenue Bast Chicago, Indiana 46312 PLEASE COMPLETE AND SUBMIT THO COPIES AT THE END OF EACH MONTH. THIS REPORT MUST REACH THE STREAM FOLLUTION CONTROL BOARD OFFICE BY THE DETH OF THE FOLLOWING MONTH.

1 j.: 6, 6, 3, 2, 1, 2, 5

PERMIT NUMBER

(6-10) OLTFALL/

FAC. NO.

014 81 4 (11-12) (13-14) MO. YR.

ENTER:

ENTER:

1 for NPDES 2 for SPC-25 1

1 - INDUSTRY 4 - FEDERAL 5 - WATER S.

				<del></del>	<del></del>			(16)	
EFFLUENT CHARACT	ERISTICS	Sulfa	<b>19</b>	1,TEC	ride	Total S	us.Scli	95	
EFFLUENT NO.	(3.7-21)	С	°003:₹2		c0052	<u>c</u>	0	<u>  c                                   </u>	
3/1/1/2011/2	tt Cond.		_GR		GR	GR	<del></del>	<b> </b>	<del> </del>
	inored .		GR		GR	GR	<u> </u>	<u> </u>	<del> </del>
	est Cond.		1/7		1/7	1/7	<del> </del>	<u> </u>	ļ
	Cared		1/7	<b> </b>	1/7	1/7-	<u> </u>	<u> </u>	<u> </u>
	Avz. (25-35)		506	<b></b>	14	20	ļ	<u> </u>	<b></b>
LIMITATIONS Dat	(27-44)	<u> </u>	1012	<u> </u>	В	30		<u> </u>	<u> </u>
DATE	UNITS	r=e/1	≥/cay	ne/I	lb/day	re(l)	BHS	mg/l	D/day
1		<u> </u>		<u>                                     </u>	<u> </u>		<u> </u>	<u> </u>	<u> </u>
(2)		<u> </u>	2.67		0.27	12 -	<u>                                      </u>		
<u>z</u>		<u> </u>		<u> </u>	<u> </u>	L	<u> </u>	<u> </u>	1
4		!	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
5			ļ				<del> </del>	<del> </del>	<u> </u>
6			<u> </u>		<u> </u>		<u> </u>	<u> </u>	1
7		<u></u>	<u> </u>	<u> </u>		<u> </u>	<u>ļ</u>	1	<u> </u>
8		1		<u> </u>	1	<u>.                                    </u>	1	1	<u> </u>
9		1				l	1	1	1
(10)			1.25		0.375	14		]	<u> </u>
11		1	1	]			1	T	1
12									
13		]						7	T
34		1			1				
15	-				<b>!</b>				
(16)			0.83		0.37	13			T.
17	•			J			Ī		
18								1	
19							1		
. 20_		<u> </u>	1	1	-	1			
21		<u> </u>					1		
22				1		T	] _		
(23)			0.50	-	0.18	15			
24		1							
25		1	1	<u> </u>			1		
26			1			1			
( 27 )			1 2.50	1	0.37	13			
26		1	1	1		1			
29						1			
30		1		]		1	1	-	
31			1	]		}			
AVEFAGE	(39-36)	1	1.55	]	0.31	5 13	1		
HIGHEST VALUE OF M		·	2.67		0.37	:1 :5			
LOWEST VALUE OF M			0:50	1	0.15		1		1 .
NO. OF TIMES MAX. EL	FFLUENT	1	0		0	0			:

U. S. S. Lead Refinery, Inc.

FLEASE COMPLETE AND BMIT TWO COPIES AT THE END OF
EACH MONTH. THIS REPORT MUST HEACH THE STREAM FOUNTION CONTROL BOARD OFFICE BY THE 2ETH OF THE FOUNTIONS MONTH.

East Chicago, Indiana 46312

APR 30 10 25 AU DI

1 01 01 31 2141215 (1-7) PERMIT NUMBER (8-10) OUTFALL

FAC. NO.

03814 (1)-12)(13-14) MO. YR. 1 tor NPDES FOLID OF HELLTH
POUSSTICH COLOR

3 - INDUSTR 4 - FEDERA 5 - WATER S

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EFFLUENT CHAR	ACTERISTICS	FLOW	P		Tead		Arse	nic	٠٠٠٦	
EFFLUENT NO.	(17-21)	50050	00 ر	400	co1051	i e	c 01000			
SAMPLE TYPE	Permit Cond.	*	GR		GR		GR		-	
(22-23)	Monitored		GR		GR		GR			
FREQUENCY	Permit Cond.		1/7		1/7		11.7	<u>, , , , , , , , , , , , , , , , , , , </u>		
(24-28)	Monitored		1/7		1/7		11/7			
EFFLUENT .	Dally Avg. (24-36)	none	l							
LIMITATIONS	Dally Max. (37-44)	none	6-0-	9-0	0_2		10	<u> </u>		
DATE	UNITS	MGD ·	н	LOW	me fl	To/day	ms/I	Tb/day	`	·
	1 .			<u> </u>	<u> </u>		<u> </u>			1
	2						<u> </u>			
	3				<u>·</u>		<u> </u>	<u>:</u>	·	
• •	4		l	1	<u> </u>	<u>†</u>	.	<u> </u> . :		:
	5					ļ		<u> </u>	<u> </u>	
	<b>6</b> )	0.05	6.6		0.44	<u> </u>	0.4	<u> </u>		
	7	<u> </u>	<u> </u>		<u> </u>	ļ		<b></b>	<u> </u>	
/·	8	<u> </u>	<u> </u>	<b>!</b>			1		<b></b>	
	<u>,                                      </u>		<u> </u>	Ь—		<u> </u>		<del>}</del>		
·	10	<u> </u>	<u> </u>	<u> </u>	<b>!</b>	<del> </del>	<u> </u>	<u> </u>		
	13	<u> </u>	<b> </b>	<u> </u>		<u> </u>	<u>-}</u>	<b>}</b>		
	12 )	0.05	6.7	<del>!</del>	0.53	<del> </del>	0.3	<del> </del> -	ļ	
	13	<u> </u>	-	<del>                                     </del>	<del>                                     </del>	<del>├</del> ─		<del> </del> -	<del> </del>	
	1 <b>6</b>	<u> </u>	<del>                                     </del>		<b>]</b>	<del> </del>	<del>                                     </del>	<del> </del>	<del> </del>	ļ
	15		<u>.                                    </u>	┼-	1 0 55	<del> </del>	+	<del> </del>	<del> </del>	<b>├</b>
	16 ) 17	0.05	1103	s ir	0.55	<del>}</del>	0.5			}
		<del>                                     </del>	mai	1	1	1		<del>                                     </del>		
	19 )	0.05	6.6	<del> </del>	0.57	<del> </del>	0.6	<del>                                     </del>	<del>                                     </del>	
	20	1	1	-	-		1	1	<del>                                     </del>	<del></del> -
<u> </u>	21				<del>                                     </del>	1		<b>†</b>	<del> </del>	<b></b> -
	22		1	1	1	-	`		1	
: :	23		1	1	1	· ·	7	T	1	
	24		$\mathbf{I}^{-}$							
	25	1					•			I
	26	· .						į .		1
·	27		_	1	-	1				1 -
. (	28 ) -	0.04	<u>  ÷ .                                   </u>	7	0.33	<u> </u>	0.2	<u> </u>	1	
	29	1		1		:		<u></u>		
	30	<u> </u>	1_	1	<u> </u>			<u> </u>	<u> </u>	<u> </u>
	31	ļ	1_	1	<u></u>			ــــــــــــــــــــــــــــــــــــــ	<u> </u>	
AVERAGE	(29.36)		1≥	≥<	0.45	<b> </b>	. 0.4	<b></b>	ļ	
	OF MONTH (37-4)		1:	<del></del>	0.57	-	0.6	<u> </u>	ļ	<u> </u>
OWEST VALUE	OF MONTH (45-52)	1 2 7 4	⅃≥	J 6.	0.33		0.2	•		ļ
NO. OF TIMES MA	AX. EFFLUENT (CEEDED / (53-54)		1	0.	5				,	

U. S. S. Lead Refinery, Inc. 5300 Kennedy Avenue Bast Chicago, Indiana 45312 SHEET 2 OF 2

PLEASE COMPLETE AND SUBMIT TAO COPIES AT THE END & EACH TINTH THIS REPORT MUST REACH THE STREAM FOIL LUTION CONTROL BOARD OFFICE BY THE SETH OF THE FOLLOWING MONTH.

1 N C 0,3 2,4,2,5

GG1 (F-10) OUTFALL/ FAC. NO. 0, 3 = 14 (11-12) (12-14) MO. YR.

ENTER:

1 for NEDES 2 for SPC-15 1

ENTER:

1-INDLE 4-FEDER 5-WATER

	FAC. 3			(15) (16)						
AFFLUENT CHARACTERISTICS   Sulfate				Fluo	ride	Total Sus.Solids				
EFFLUENT NO.	(17-21)	С	62.90	_	C00527	C5:47	0	С	0	
	Fernit Cond.		GR		CP	GR.				
(22-23)	Monttored		CR	1	CR	GR	,		1	
FREQUENCY	Permit Cond.		1/7		11/7	1/7				
(24-28)	Monstored		1/7	•	1/7	147				
EFFLUENT	Dany Avz. (29-36)		505	1	in in	20			1	
LIMITATIONS	Dally (27-44)		1012	1	1 0	50				
	UNITS		1		1	1			1	
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LUTTAGE	125-361	<del> </del>	1.54		<u> </u>		<del> </del>	<del> </del>	<del> </del>	
	CF MONTH (2744)		3.53	┩	0.35		<del></del>	<u> </u>	-	
LOWEST VALUE O	CHEST VALUE OF MONTH (45:52)		1.25	-{	0.23	4 8	<del></del>		1	
HO OF TIMES MA		1.	ι . ε	}	0	0				
- 1. A 18 E. 20 C	EEDED (12:14)	ــــــــــــــــــــــــــــــــــــــ		1			<u> </u>	<u>J.                                     </u>	1	

SHELT 1 or 2

U. S. S. Lead Refinery, Inc. ( 5300 Kennedy Avenue East Chicago, Indiana 45312 PLEASE COMPLETE AND BMIT TWO COPIES AT THE END OF EACH MONTIL THIS RELAT MUST REACH THE STREAM FOLLUTION CONTROL BOARD OFFICE BY THE 25TH OF THE FOLLOWING MONTH.

36

.1 01 01 31 214 1215 (1-7) PERMIT NUMBER (8-30) OUTFALL/ 01-7-2)(13-14) MO. YR. ENTER:

1 for NPDES 2 for SPC-15

1 1 1

1-INDUSTR

1 4-FEDERAL (16) 8-WATERS

ENTER:

	FAC.	NO		1 K.	•	•	. F	15)	(16)	B-WATER S
EFFLUENTCHAF	ACTERISTICS	FLOW	P	н	Lead		Arse	กร์ต		
EFFLUENTNO.	(17-21)	50050	~ 00	400	cn1051	Q	c 01000			
SAMPLE TYPE	Permit Cond.		GR		GR		GR	:		
(22-23)	Monitored		GR		GR		GR	1		
FREQUENCY	Permit Cond.		1/7		1/7		1/7	,		
(24-28)	Monitored	·	1/7		1/7		11/7	1		
EFFLUENT -	Dally Avz. (24-36)	none				<u> </u>				
LIMITATIONS	Day Max. (37-44)	none	<u>6-0-</u>	9-0	0_2	<u> </u>	1.0	1	1	
DATE	UNITS	MGD ·	ні	row	mg/j	To/day	meA	Ib/day		
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}	4					1		<u> </u>		<b>T</b>
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	6							-		<del></del>
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	9									
	10	·				T	1			•
	13									
	12			1			•			
(:	13 )	0.03	6.3	4	0.47		0.2			
	16									T
	15	<u> </u>	Ŀ.	<u> </u>	<u> </u>	<u> </u>		1	1	<u> </u>
<u> </u>	16	<b>!</b>		<u>  .</u>	<u> </u>	<u> </u>		<u> </u>	<b>!</b>	1
	17	<u> </u>	<u> </u>	<u> </u>		<u> </u>		<u> </u>		<u> </u>
	18		1	1		<u> </u>			<u> </u>	<u> </u>
	<u>.</u>	<u> </u>	1	<u> </u>		<u> </u>		<u> </u>	<u> </u>	1
	20	<u> </u>	<b>↓</b> ∴	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	L	<b></b>
	21 )	0.05	5.6	<u> </u>	0.45	1	0.7	<u> </u>		<del> </del> -
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	27:	7.94	5.	<del> </del>	0.40	<del> </del>	2.2	<del> </del>	<del>                                       </del>	+
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AVERAGE	(25-36)	101	┼<	<del>;</del>	0.44	<del>}                                    </del>	0.22	<del>`</del>	<del></del>	1
	OF MONTH (37-44)		4.0	गड़ि	0.47	1	0.1	<del>                                     </del>	1	
	OF MONTH (45-52)		文	6.3	<b>*</b>	1	7.7	<del> </del>	1	
1.		1	-	м	1	<del>                                     </del>			<del> </del>	1:
NO. OF TIMES MA	CEEDED (\$2-54)	0 .	1:	-າຸ	4.	1	10/	1/		

(SIGNATURE OF CERTIFIED CERATOR (25)

(60) (SIGNATULE OF PRINCIPAL EXECUTIVE? 3 OFFICER OF AUTHORIZED ACTIVITY ? 3

37

U. S. S. Lead Refinery, Inc. 1300 Kennedy Avenue E≥st Chicago, Indiana 46312 PLEASE FOWERITE AND SUBMIT TWO CODIES AT THE END TACH MONTH THIS PERSON MUST FEACH THE STEEPM ILLUMING MONTH, DE TOATO OFFICE BY THE SETH OF THE FULL OWING MONTH.

1 N 0,0,3,2,4,2,5

OG2 (E-16) OUTFALLI FAC.NO. 012 81 4 (11-12) (13-14) 50. YR.

ENTER:

1 for 57 DES 2 for 57 C-15 1 ENTER:

1-INDT 4-FEL = 5-WATE

		· · ·						(1 E)	
EFFLUENT CHA	Sulfa		7]20	rice	Total S		<u>s</u>		
EFFLUENT NO.	07:21)	С	2500	<u> </u>	c00951	cic5+7	ς	<u>  c                                   </u>	10_
Sample type	Primit Cond.				GR	_cr_		]	
(22:23)	Mentioned		<u>C3</u>		<u>CR</u>	C.B.		J	<u></u>
FREQUENCY	Perinti Cond.		1/7		1/7	1/7		}	
(24-28)	Menticaed		1/7		1/7	1/-7		j	)
EFFLUENT	Diff Avg. (29-36)		505		J . J <sup>1</sup>	20		} ,	]
LIMITATIONS	Dally 2. (37-44)	1	3012		B	-0	` `		}
	UNITS		]			]			
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HIGHEST VALUE C		1	1 :	7	0. 22	15	·		-j
		1	75	1	0:15	٠,٠	1	1	1
	たいのいては ひがんかい	1 -							
NO. OF TIMES MAD	<u>f month (65-52).</u> X. effluent		3		1	1			1

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ZHEFL _	_ ]	UF	7

U.S.S. Lead Refinery, Inc./ 5300 Kennedy Avenue East Chicago, Indiana 46312 FLEASE COMPLETE AN UBMIT TWO COPIES AT THE END OF EACH MONTH. THIS REACH MUST HEACH THE STREAM FOL-LUTION CONTPOL BOARD OFFICE BY THE 25TH OF THE FOLLOWING MONTH.

38

1 01 0 31 214 1215 (1-7) PERMIT NUMBER (8-10) OUTFALL/ FAC. NO. 011 514 (11-12)(12-14) MO. YR.

ENTER:

1 for NPDES

2 for SPC-15 1

ENTER:

4-FEDERA 5-WATER

		FAC.	NO. '		-	•	•	7	15)	(16)	- "716"
EFFLUENT	EFFLUENT CHARACTERISTICS			7	Ħ	Tead	t	Arse	nic		
EFFLUENT	NO.	(17-21)	1: 50050	00	430	cn1051	<b>2</b>	c 01000			
SAMPLETY	PF	Permit Cond.		GR		GR		GR	<u> </u>		T
(22-23)	••	Monitored		GR		GR		GR	,		
FREQUENC	~~ ~	Permit Cond.		11/7		1/7		1/7	,		-:
(24-28)	•	Monliored		11/7		1/7		11/7		<u> </u>	T
EFFLUENT		Dally Avz. (24-36)	none	1			1	1	<del>•</del> • • • • • • • • • • • • • • • • • •		1
LIMITATIO		Daffy Max. (37-44)		16-0	۰5-0	0_2	1	1.0	<u> </u>	i — —	T
DATE		UNITS	MGD -		Low	meß	Tojesy	meß	Po/day	,	-
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<b>}</b>		16 )	0.02	6.	<del>'  · ·</del>	0.47		0.1	<del> </del>		
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<b></b>		23 )	0.02	5.4	1-	0.49	╂	0.09	<del>-:</del> -	<b>\</b>	+
<u> </u>			10.02	17.	<del>' </del> -	0.07	<del>                                     </del>	0.09	<del>                                     </del>	<del> </del>	1
		24		+	+-	1	+	<u>.</u>	<del>                                     </del>	<del> </del> -	<del>                                     </del>
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		29 30 )	0.93	5.	+	+	<del></del>	0.19	<del>                                     </del>	1	<del>- </del>
			<del> ```/-</del>	-1-	<del>- 1</del> —	7?	<del>'</del> -	1 9.19	<del> </del>	1	<del> </del>
AVES		31	1, -	+	<u> </u>	03	<u> </u>	0.12	<del>}</del>	<del>i                                    </del>	<del></del>
AVERA		(29-36)		5.	$\widehat{\Leftrightarrow}$	0.55	<del></del>	0.12	<del> </del>	1	<del> </del> -
		OF MONTH (37-44)			<del></del>	¥	<del>-}</del> -	0.20	<del></del>	+	<del>                                     </del>
		OF MONTH (43.52)	<u> </u>		<u> </u>				1	+	
LIMITATIO	NS/EX	AX. EFFICUENT	D	1	·^ . ·	ت ا	1	0.	97	1	

(SIGNATURE OF CERTIFIED OPERATOR (SS)

(60) (SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR, AUTHORIZED ASTNE

## INCHMA STIGIAM POLLUTION CONTROL BOARD MONTHLY MONITORING TORMS FORMS REPORT FOR TPC-15 OR NPDES DISCHARGE FELLITS 20

v.s.	s.	Lead	Refiner	y, Inc.
			lvenue Indiana	<u>1</u> 6312

SHEET 2 OF 2

PLEASE COMPLETE AND SUBMIT TWO COPIES AT THE END OF EACH MONTH. THIS REPORT MUST REACH THE STREAM POLLUTION CONTROL BOARD OFFICE BY THE 26TH OF THE FOLLOWING MONTH.

1,5 0,0,3,2,4,2,5

. . . . . . . .

QQ2 (E-10) OUTFALL/

FAC. NO.

0, 1 5, 4

MO. YR.

ENTER:

1 for NFDES 2 for SPC-15 1 ENTER:

1 - INDUSTES 4 - FEDERAL 5 - WATER SL

EFFLUENT CHARACTERISTICS Sulfate					ride		us . Solid	(16)	
EFFLUENT NO.	COC.			C	000951	cl**-		c	2
	(17-21) Permit Cond.	С	GR_		GR	GR	<u> </u>	<u> </u>	,
	Monttored.		GR		GR	GR	,		
FREQUENCY	Fermit Cond.		1/7_		1/7	1/7			
404.00	Monitored		1/7		1/7	1/7.			
EFFLUENT	Dally Avg. (29-36)		506		. 11	20		`	
LIMITATIONS	Dally 열설 (37-44)		1012		៥	30			
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	HIGHEST VALUE OF MONTH (37-44) LOWEST VALUE OF MONTH (45-52)		0.00	<del>                                     </del>	0.::	12	1	+	<del> </del>
NO. OF TIMES MAX LIMITATIONS EXC	. EFFLUENT		0		,	0			

SHEET ] OF 2

U. S. S. Lead Refinery, Inc. ( 5300 Kennedy Avenue East Chicago, Indiana 46312 FLEASE COMPLETE AND SMIT TWO COPIES AT THE END OF EACH MONTH, THIS RELEAT MUST BEACH THE STREAM POLLUTION CONTROL BOARD OFFICE BY THE SETH OF THE FOLLOWING MONTH.

40

1016/312/412/5 (1-7) PERMIT NUMBER (8-10) (11-12)(13-14)
OUTFALL/ MO. YR.

ENTER:

PDES .

1 for NPDES 2 for SPC-18

1

4-FEDERAL 3-WATER 1

	FAC.	,	MU.		•	•	ī	16)	(36)	S-WATER
EFFLUENT CHAI	RACTERISTICS	FLOW	1	н	<u>lead</u>	 	Arise	nic		
EFFLUENT NO.	(17-21)	150050	- 00	400	c01051	•	c 01000			
SAMPLE TYPE	Permit Cond.		GR		GR		GR	:		T : .
(22-23)	Monitored		GR		GR		GR			<u> </u>
FREQUENCY	Permit Cond.		11/7		1/7		1./7	,		
(24-28)	Monitored		1/7		1/7		1/7			L
EFFLUENT	Dally Avg. (24-36)	none					<u> </u>			
LIMITATIONS	Dally Max. (37-44)	none	<u>6-0</u>	<u>9-0</u>	0_2	1	10	1		1
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AVERAGE	(25-36)		12	⋈	0.32	<del></del>	. 0.2	<del> </del>	<del> </del>	<u> </u>
	E OF MONTH (37-44)	<u> </u>	6.	<del></del>	0.50		0.3	<u> </u>	-{	<del>                                     </del>
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NO. OF TIMES M	AX EFFLUENT CEEDED (53.54)	J :: :	.:	0.	5		0.	2		

(SIGNATURE OF CERTIFIED OFERATOR

(60) (SIGNATURE OF PRINCIPAL EXECUTIVE

41

SHELT 2 OF 2

U. S. S. Lead Refinery, Inc. 300 Kennedy Avenue 251 Chicago, Indiana 46312 PLEASE COMPLETE AND SUBMIT TWO COPIES AT THE WAS C EASH MONTH THIS FEFORT HUST REACH THE STREAM FO LUTION CONTROL WOARD OFFICE BY THE TETH OF THE FO LOFING MONTH.

1 12 0,0,3,2,4,2,5

PERMIT NUMBER

(E-10) OUTFALL/ 1,28,3 (11-12) (13-24) MO. YR.

ENTER:

1 for NIDES 2 for SiC-15 ENTER:

(15)

1-1NDU 4-FEDE 5-WATE

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EFFLUENT CHAI	RACTERISTICS	Sulfat	6	Fluor		Total S		5	
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SAMPLE TYPE	Permit Cond.		_GR		CR	cr		]	
	Mentiored		CR		_CR	C.B.			]
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	Monttored		1/7		1/7	1/7			]
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LIMITATIONS	DiE) (37-44)		1012		8	10	\	}	
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	F MONTH (45-52)		0.25		175	11	<del> </del>		1-
NO. OF TIMES MAD LIMITATIONS EXC	X.EFFLUENT GEDED (15-54)		0	200	D	. 0			78-

SHOUND CONTRACTOR OF THE STATE والراميون ويوجوه والهوين SHEET 1 UF PLEASE CONFLETE AND ALEMIT TWO COPIES AT THE END OF U. S. S. Lead Refinery, Inc. EACH MONTH THIS REPORT MUST HEACH THE STREAM BILL LUTION CONTROL BUARD OFFICE BY THE 28TH OF THE 101 5300 Kennedy Avenue LOWING MONTH. East Chicago, Indiana 46312 \* · ENTER: ENTER: N 01 (1312141215 111 313 0011 1 for NPDES 1 - INDUST : (1-7) (8-10) (31-32)(13-34) 2 for 32C-1 S 4-FEDERAL PERMIT NUMBER 1 OUTFALL! S-WATER S MO. YR. FAC. NO (16) (25) EFFLUENT CHARACTERISTICS FLOW рH Arsenic Iead EFFLUENT NO. (17-21)50050 00400 cn1051 | 9 c 010000° o Permit Cond. GR. GR **E3** SAMPLE TYPE (22-23) GR Œ Mordisred GR 1/7 1/7 1/7 Permit Cond. FREQUENCY 1/7 1/7 1/7\_ (24-25) Monitored Dally Avg. (24-36) EFFLUENT none LIMITATIONS 6-0-9-0 0\_2 1.-0 Dally Max. (37-44) none UNITS MGD HI LOW mell BKay mefl Ib/2.7 DATE 3 2 3 (4)· 0.03 5.9 0.49 0.7 Б 6 7 E 9 (10) 6.5 0.03 0.50 0.311 12 13 14 15 -16 17 0.05 0\_47 0.2 . 15 20 21 22 23 24 (25) 0.05 5.5 0.46 26 27 22

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(29-36)

(\$3.54)/

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29 30

GHEST VALUE OF MONTH (37-44)

OWEST VALUE OF MONTH (45-52)

(SIGNATURATE CERTIFIED OPERATOR

NO. OF TIMES MAX. EFFLUENT LIMITATIONS EXCEEDED (53

AVERAGE

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(CO) (S CHATTI HE OF PRINCIPAL ENECUTIVE

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IN IANA STRUMM POLLUTION CONTROL BOARD MONTHLY MONTHORING (1984) FOR THE REPORT FO SPC-15 OR NPDES DISCHARGE PL SITS (1974)

SHEET 2 OF 2

U. S. S. Lead Refinery, Inc. 5300 Kennedy Avenue East Chicago, Indiana 46312

PLEASE COMPLETE AND SUBMIT THO COPIES AT THE END OF EACH MONTH. THIS REPORT MUST REACH THE STREAM POLLUTION CONTROL BOARD OFFICE BY THE ISTH OF THE POLLOWING MONTH.

1,3 0,0,3,2,4,2,5

PERMIT NUMBER

GG1 (E-10) OLTFALL/ (11-12) (13-14) MO. YR. ENTER:

ENTER:

2 for SPC-15 1

1 - INDUSTRY 4 - FEDERAL 5 - WATER SU

FAC. NO.					(15) (15)					
EFFLUENT CHARACTERISTICS Sulfate				Fluc	ride	Total S	us.Scli	s		
EFFLUENT NO.	(17-21)	С	3:500	C	00951	C	o	C		
SAMPLE TYPE	Permit Cond.		GR		GR	GR				
(22-23)	Monitored		GR		GR	GR	•			
FREQUENCY	Permit Cond.	1	11/7	· · · · · · · · · · · · · · · · · · ·	1/7	1/7		1		
(24-28)	Monitored	<b>†</b>	1/7	<del> </del>	1/7	1/7	<del> </del>	<del>                                     </del>	<del>                                     </del>	
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EFFLUENT LIMITATIONS	Dally (37-44)	<del> </del>	1012	<del> </del>	1 8 -		<u> </u>	<del> </del>	<del> </del>	
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LOWEST VALUE O		1	78		1.36	12.0			T -	
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	CEEDED (52-14	1 .	0	<b>.</b>	0	2	i	·-		

SHEET 1 or 2

U.S.S. Lead Refinery, Inc. 5300 Kennedy Avenue East Chicago, Indiana 46312 FLEASE COMPLETE AND SMIT TWO SOPIES AT THE END OF EACH MONTH, THIS REPORT MUST REACH THE STREAM FOLLUTION CONTROL BOARD OFFICE BY THE 28TH OF THE FOLLOWING MONTH,

(15)

44.

1 01 0: 312141215 (1-7) PERMIT NUMBER

magaan saab n

(B-10) OUTFALL

FAC. NO.

110 813 (11-12)(13-24) MO. YE. ENTER:

1 for NPDES 2 for SPC-15 ENTER:

1

(16)

1-INDUSTRY 4-FEDERAL 5-WATER SEE

EFFLUENT CHARACTERISTICS FLOW ρH Arsenic 1020 <u>cn1051 lq</u> EFFLUENT NO. (17-21)50050 c 01000 o 00460 Permit Cond. G? GR GR SAMPLE TYPE (22-23)Monllored GR GR GR 1/7 Permit Cond. 1/7 1/7 FREQUENCY 1/7 1/.7.\_ Mon!tored 1/7 (24-28) Datty Avg. (24-36) EFFLUENT none LIMITATIONS Dally Max. (37-44) 0\_2 1.0 5-0-9-0 none UNITS MGD HI LOW me fl To iday mr/l Th /Cay DATE 1 2 3 ٠. 4 5 6 7 ·.. 8 0.04 0.3 (e) 0.53 10 ... 11 12 13 (14) 0.05 6.8 0.55 0.5 .15 ·16 17 • . 38 19 20 . 5 0.57 0.03 0.4 (21)22 23 24 25 26 27 (28) 0.04 **5.7** SAMPLE LOST IN SHIPPING. 29 30

0.55

0.57

0.53

(SIGNATURE OF CERTIFIED OPERATOR (55)

31

HIGHEST VALUE OF MONTH (37-44)

OWEST VALUE OF MONTH (45-52) NO. OF TIMES MAX. EFFLUENT

LIMITATIONS EXCHENED (53-54)

(60) (SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR, AUTHORIZED ASINT)

0.4

0.5

0.3

0

AVERAGE

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(6.3

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0.04

0.05

0.03

(29-36)

# REPORT FO SPC-15 OR NPDES DISCHARGE PE SITS GERMANDERS

			Refiner	, Inc.
5301	) X≘x	nedy .	ivenue	
Ξas	t Chi	cago,	Indiana	46312

SHEET 2 OF 2

PLEASE COMPLETE AND SUBMIT TWO COPIES AT THE END OF EACH MONTH, THIS REPORT MUST REACH THE STREAM POLLUTION CONTROL BOARD OFFICE BY THE SETH OF THE FOLLOWING MONTH.

1 13 0 0 3 2 4 2 5

PERMIT NUMBER

QQ1 (6-10) OUTFALL/ 1 10 813 (12-12) (13-14) MO. YR.

ENTER:

1 for NPDES 2 for SPC-15 ENTER:

1 - INDUSTRY 4 - FEDERAL 5 - WATER SU

	FAC.		SU. 14.				15)	: (16)	5-WATE
EFFLUENT CHARA	CTERISTICS	Sulfa	te	Fluc	ride	Total S	us.Solie		
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	DED (53-54)	E .	0	L	0	1 0			

SHEET	1	CF.	216
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U. S. S. Lead Refinery, Inc. 5300 Kennedy Avenue East Chicago, Indiana 46312

PLEASE COMPLETE AND SUBMIT TWO COPIES AT THE END OF EACH MONTH, THIS REPORT MUST REACH THE STREAM FOL LUTION CONTROL BOARD OFFICE BY THE 28TH OF THE FOL LOWING MONTH.

1.18	01(312141215
	(1-7) ERMIT NUMBER

(8-10)

MO. YR.

ENTER:

1 for NPDES

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3 - INDUSTRY 4-FEDERAL

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	FAC.	NO.				• •	<u> </u>	15)	(16)	J- ~ 7 1 ER
EFFLUENT CHARA	CTERISTICS	FLOW	P	н	Lead	1	Arse	nic		
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	Monitored		GR		GR		GR_	-		
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	Monitored		1/7		1/7		1/.7	<u>'</u>		<del>                                     </del>
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(SIGNATURE OF CERTIFIED OFERATOR (55)

INDIANA STREAM FOLLUTION CONTROL BOARD MONTHLY MONITORING (DME-1 FLAM)
REPORT FOT SPC-15 OR NEDES DISCHARGE PH ITS 47

SHEET 2 OF 2

U. S. S. Lead Refinery, Inc. 5300 Kennedy Avenue Dast Chicago, Indiana 46312 PLEASE COMPLETE AND SUBMIT TWO COPIES AT THE END OF EACH MONTH, THIS REPORT MUST REACH THE STREAM FOLLUTION CONTROL BOARD OFFICE BY THE 25TH OF THE FOLLOWING MONTH.

1 1 0 0 3 2 4 2 5

(8-10) OUTFALL/ FAC. NO. 319 313 (11-12) (15-24) MO. YR. ENTER:

ENTER:

1 for NPDES 2 for SPC-15

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1 - INDUSTRY 4 - FEDERAL 5 - WATER SL.

	PAC. :					(1	(5)	(16)	
EFFLUENT CHAI	RACTERISTICS	Sulfa	te	Fluo	ride	Total S		s	
EFFLUENT NO.	(17-21)	C	o <sup>009:5</sup>	С	<b>c</b> 00951	c" ·- ′	Q	c	
SAMPLE TYPE	Permit Cond.		GR		CB	CR			<u> </u>
(22-23)	Monitored		ĊR		CR	GR			
FREQUENCY	Permit Cond.		1/7		1/7	1/7			
(24-28)	Monitored		1/7		1/7	1/7		)	1
EFFLUENT	Delly Avr. (29-36)		506		4	20			
LIMITATIONS	Dally 22. (37-44)		1012		B	30			
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AVERAGE	(22-36)		2.30	L	0.153	1 22.2	<u> </u>	<u>.</u>	
HIGHEST VALUE	OF MONTH (37-44)		7.57		0 375	76			
LOWEST VALUE O			2.00		0.100	15	1		-
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	EEDED (53-54)		0	r	0	0	I		

SHEET 1 OF 2

U. S. S. Lead Refinery, Inc. 5300 Kennedy Avenue East Chicago, Indiana 46312 PLEASE CONTLETE AND BUILT TWO COPIES AT THE END OF EACH MONTH, THIS PEPORT WUST REACH THE STREAM POLLUTION CONTROL BOARD OFFICE BY THE 28TH OF THE FOLLOWING MONTH.

1:1N 01 03 12 14 12 15 (1-7) PERMIT NUMBER (8-10) OUTFALL! 018 513 (11-12)(13-14) MO. YR. HOMENT TO NAMES

BOART OF WATER

ENTER:

1-INDUSTRY 4-FEDERAL 5-WATER SU

	FAC. J	·o.			ე. ე	けんごうそう	F MATER TO	25)	(16)	3. WY1ES ?
EFFLUENT CHAI	RACTERISTICS	FLOW	P	H	Lead		Arse			
EFFLUENT NO.	(27-21)	50050	00	400	cn1051	•	c 01000			
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(22-23)	Monitores		GR		GR	<u> </u>	<u>                                      </u>	,		
FREQUENCY	Permit Cond.		11/7		1/7	<u> </u>	117	1 .		.:
(24-28)	Monitored		1/7		1/7	ļ	11/7	<u></u> -	<b> </b>	4
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AVERAGE	(29-36)	2.04	42	<u></u>	0.71	<del> </del>	55	1	<del> </del>	
IGHEST VALUE	E OF MONTH (37-44)	0.05	+	, ~	0.75	<del>- </del>		<u>!</u>	-	
LOWEST VALUE	OF MONTH (45-52)	7.04	_ <b> </b> ×	6.	4 0.58			<u>.</u>		
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(SIGNATURE OF CERTIFIED CREATER (SL)

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U. S. S. Load Refinery, Inc. 5400 Kennedy Avenue ( Chicago, Indiana 16312 SURASE COMPLETE AND NUMBER OF COMPS AT THE HAD FETACH MONTH THIS FALL OF THIS REACH THE STIFFAM INCLUDENCE CONTENDED COPING OF THE LETH OF THE FOUNCHING MONTH.

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GG2 (E-10) GUTTALLI 018 813 (12-12) (12-4) MO. YR.

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lead Refinery, Inc. dy Avenue go, Indiana 46312

PLEASE COMPLETE AND THE TWO COPIES AT THE END OF EACH MONTIL THIS REPURT MUST REACH THE STREAM TO LUTION CONTROL BOARD OFFICE BY THE 78TH OF THE FOL LOWING MONTH.

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(8-10) (11-12)(:3-14) OUTFALL MO. YR.

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U. S. S. Lead Refinery, Inc. 5300 Kennedy Avenue East Chicago, Indiana 46312

PLEASE COMPLETE AND SMIT TWO COPIES AT THE END OF EACH MONTH. THIS REPORT MUST REACH THE STREAM FILE LUTION CONTROL BOARD OFFICE BY THE 28TH OF THE FOL LOWING MONTE.

in 010131214121 (1-7) PERMIT NUMBER

(8-10) OUTFALL/

FAC. NO.

(11-12)(13-14) MO. YR.

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2 for SPC-15

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H. S. S. Load Refinery, Inc. 300 Hennedy Avenue Sest Chicago, Indiana 16312

\$3.557 \_ 2

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MINITE .: OHS FACE	EDED (1144)	1 .		<b>.</b>	0	1	1	1.	. 1

·

U. S. S. Lead Refinery, Inc. 5300 Kennedy Avenue

East Chicago, Indiana 46312

.IN 010 312141215

(1-7) PERMIT NUMBER

FLEASE COMPLETE AND NUBMIT TWO COPINS AT THE FNO CE EACH MONTH. THIS REPORT MUST REACH THE STREAM POLLUTION CONTROL BOARD OFFICE BY THE 2ETH OF THE FOLLOWING MONTH.

May 31 3 17 14 723

SHEET

ENTER:

(8-30) (31-32)(31-34)
OUTFALL/ MD. YR.

FAC. NO.

1 for 1 2)(23-34) 2 for 5

1 for NPDES 63/50 2 for SPC-15

4-FEDERAL S-NATER SU

EFFLUENT CHARACTERISTICS				,								
SAMPLE TYPE   Similar Cond.   GR   GR   GR   GR   GR   GR   GR   G	EFFLUENT CHAP	RACTERISTICS	FLO=	اء	H	<u>lead</u>		Arser	nic		1	
SAPPLE TYPE   C22-23	EFFLUENT NO.	(17-21)	4 50053	es	<b>#</b> 50	cc1051	Q			L		
CZ-23    Monitoret   CZ   CZ   CZ   CZ   CZ   CZ   CZ   C	SAMPLE TYPE	Permit Cond.	`	G3		GR		GR :				-
(74-78)   Meanlored   1/7		Monitored		GR.		GR.		GR	,		_ [	
1/7   1/7	FREDUENCY	Permit Cond.		11/7		1/7		1/7	,	1		
EFFLUENT   Didy Ave. (24-36)   none		Monitored		1/7		1/7						
Imitations   Daty Mar. (37-44)   none   S-0-9-0   0.2   1.0			none	1				1		1	T	
DATE				15-0-	9-0	0_2		1.0		1	_1	
(1) 0.02 6.9 0.15 0.011  2	DATE						To/day		16/Cay			
2   3   3   4   5   6   6   7   7   7   7   7   7   7   7	<u> </u>	• 1	0.02	6 0		0.15		0.011		1		
3 4 4 5 6 7 (a) 0.04 7 0.40 0.01  3 10 11 11 12 13 14 (a) 0.03 7 0.85 0.008 16 17 18 18 19 20 21 (227 0.03 7.1 0.15 0.008 23 24 25 26 27 28 29 20 20 21 21 22 25 26 27 28 29 20 20 20 21 21 22 25 26 26 27 28 29 20 20 20 20 21 21 22 23 24 25 26 27 28 29 20 20 20 20 20 20 20 21 21 22 23 24 25 26 27 28 29 20 20 20 20 20 20 20 20 20 20 20 20 20			0.02	10.7		0.13	<u> </u>	0.011		<del> </del>		
4		<del></del>	<b></b>			<b>!</b> -	<u></u>				1	
5 6 7 0.40 0.01				1	<u> </u>		<u> </u>	-	<u> </u>	<del> </del>		
6 7 7 0.40 0.01 7 0.40 0.01 7 0.40 0.01 7 0.40 0.01 7 0.40 0.01 7 0.40 0.01 7 0.40 0.01 7 0.40 0.01 7 0.40 0.01 7 0.40 0.01 7 0.40 0.01 7 0.40 0.01 7 0.40 0.01 7 0.40 0.01 7 0.40 0.01 7 0.40 0.40 0.01 7 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.	L	•	<del> </del>	1-	¦	<del> </del>			<b></b>		‡	
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27		25	1		<u> </u>		<u>.</u>			<u> </u>		
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.CHEST VALUE OF MONTH (37-44) 7,7: 0.85 0.016  LC -EST VALUE OF MONTH (45-52) 5.9 0.15 0.008 1		·	i	75		0.426	1	0.01	Ī	T		
NO. OF TIMES MAX. EFFLUENT				17.7		<del></del>	i			1		
NO. OF TIMES MAX, EFFLUENT				オズ		·			<del>!</del>	1		
LIMITATIONS EXCLEDED (\$3.54)	NO. OF TIMES M.	AX. EFFLUENT			C .	3	<del> </del>	0.	177	-		

ISICHATURELOF CERTIFIED OPENATUR (51.

(CO) (SIGNATURE OF PRINCIPAL EXCEPTION

### INDIANA SCREAM POLLUTION CONTROL BOARD MONTP! Y MONITORING COMMA FORMS REPORT FC SPC45 OR NPDES DISCHARGE PLANTS

		REPORT F	SPC.	15 OR NI	DES DIS	CHARGE	PELMIT	S		
<u> </u>	- V. S. S. Lead	i Refinery, I	nc.		EACH :	CONTIL THE	S REPORT	MIT TWO C	OPIES AT	OF 2 THE END OF
L	5300 Hennedy East Chicago, -	Avenue , Indiana 463	12		11108	CONTR <b>OL</b> S MONT <b>H</b>	IO GAADA	FICE BY 1	THE 25711 C	OF THE FOL
Ī	12 6 6 2 5 15 p	(8-10	)) (1 \LL/	1-12) (13-14) MO. YR.			or NPDES or S7C-15	1	ENTE	IR: 1 - INDUST 4 - FEDER 5 - WATER
ſ	EFFLUENT CHA	RACTERISTICS	Sulfa		Fluo	rice	Total S			
I	EFFLUENT NO.	(17-21)	С	e009:5	C ·	er0327	C: 3-v	0	C	
	SAMPLE TYPE	Femil Cond.		GR		CH.	cr		<u> </u>	
	(22-23)	Monitored	<u> </u>	GR	Ì	C <sub>र</sub>	_GR		<u> </u>	<u> </u>
	FREQUENCY	Permit Cond.	1	1/7		1//	1/7		1	<u> </u>
Į	(24-25)	Monitored	<u></u>	1/7		1/7	1/7			
	EFFLUENT	Dally Avg. (22-36)		506		- 4	20	·	\	]
1	LIMITATIONS	Dath (27-44)		1012		8	30	\		
İ	DATE	UNITS '	mtU	D/dey	пцП	BRAY	mt/l	To /Gay	m£/l	Diday
		1)	<u> </u>	34.16	ŀ	1.0	8.2	<u> </u>	<u> </u>	<u> </u>
		2~ ·	<u> </u>	1	I	1	<u> </u>	<u> </u>		
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- 1	4					1	<u> </u>			
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<u>50</u>

145.6

137.5

84

145.6

34.16

0

( 29 )

30 31

HICHEST VALUE OF MONTH (37-44)

LOWEST VALUE OF MONTH (45-57)

LIMITATIONS EXCEEDED (53-54)

NO. OF TIMES MAX, EFFLUENT

(36-36)

AVTRACE

12.8 25.1 7.2 0

11

25.1

12.7

2.2

1.53

2.:

1

0

CHILITIAN COLONIA COLO

U. S. S. Lead Refinery, Inc. 5300 Kennedy Avenue East Chicago, Indiana 46312

Pag N | 01 Ct 3 | 214 1215

PERMIT NUMBER

(1.7)

SHEET 1 UT 2 PLEASE COMPLETE AND SEMIT TWO COMES AT THE END OF EACH MONTH. THIS REPORT MUST REACH THE STREAM POL LUTION CONTROL BOAFD OFFICE BY THE 28TH OF THE FCL LOWING MONTH.

ENTER:

013 813

(22-12)(23-24)

0 017

(8-10)

I for NPDES

2 for SPC-15

ENTER:

1

1-INDUSTRY 4 - FEDERAL 5-WATER SL

MO. YR. OUTFALL FAC. NO. (15) (16) EFFLUENT CHARACTERISTICS FLCW pH <u>Arsenic</u> Tead c 01000 o EFFLUENT NO. (17-21) 50050 00450 co1051 Q Peimit Cond. GR. GR G3 SAMPLE TYPE (22-23) GR Monitored GR GR 1/7 1/7 1/7 Permit Cond. FREQUENCY 1/7 1/7 1/7\_\_ Monitored (24-28) Dally Avg. (24-36) Snoa EFFLUENT LIMITATIONS Dally Max. (37-44) 0\_2 none 6-0-9-0 1.-0 UNITS HI LOW MGD meß To/day reg fl Biday DATE 1 2 3 (4) 0.03 6.9 0.14 0.025 5 6 7 ₹... 8 9 10 4. 7.0 <del>.</del> -(11) 0.02 0.08 (0.005 12 13 14 • -<del>-</del> 15 - 3 6 17 (38) 6.8 0.04 0.26 0.005 19 20 21 22 23 24 0.03 7.1 0.19 0.01 ( 25) 26 27 28 29 30 31 (25.36) : 1= 0.167 0.011 CHEST VALUE OF MONTH (37-44) 0.26 0.025 25 ? <del>'</del> \ 0.08 0.005 4 OWEST VALUE OF MONTH (41 52) NO. OF TIMES MAX, EFFLUENT 0 -LIMITATIONS EXCEEDED (52-54)

Maick (SIGNATURE OF CERTIFIED OPERATOR (55)

STATE OF SEINCH AND THE TANK OF THE (CO) (S'S'

#### INDIANA STREAM FOLLUBEN CONTROL BOARD MONTIJLY MONITORING - COMERCE FOR ALL REPORT FO SPO-15 OR NIDES DISCHARGE PHONTS

U. S. S. Lead Refinery, Inc. 5300 Nammedy Avenue East Chicago, Indiana 46312

SHEET 2

PLEASE COMPLETE AND SUBMIT TWO COPIES AT THE END OF EACH MONTH. THIS REPORT MUST REACH THE STREAM FOLLUTION CONTROL BOARD OFFICE BY THE 18TH OF THE FOLLUTION OFFICE BY THE 18TH OF THE FOLLUTION OFFICE BY THE 18TH OF THE FOLLUTION OFFICE BY THE 18TH OF THE FOLLUTION OFFICE BY THE 18TH OF THE FOLLUTION OF THE FOLLUTION OFFICE BY THE 18TH OF THE FOLLUTION OFFICE BY THE 18TH OF THE FOLLUTION OFFICE BY THE 18TH OF THE FOLLUTION OFFICE BY THE 18TH OF THE FOLLUTION OFFICE BY THE 18TH OF THE FOLLUTION OFFICE BY THE 18TH OF THE FOLLUTION OFFICE BY THE 18TH OF THE FOLLUTION OFFICE BY THE 18TH OF THE FOLLUTION OFFICE BY THE 18TH OF THE FOLLUTION OFFICE BY THE 18TH OFFICE BY THE 18 LOWING MONTH.

1: 0,0,3,2,4,2,5 (1-7)

PERMIT NUMBER

0,01 (8-10) OUTFALLI

0.31813 (33-52) (13-24) MC. YR.

ENTER:

1 for NPDES 2 for SPC-15

ENTER:

1-INDUSTRS S-WATER SC.

EFFLUENT CHARACTERISTICS  EFFLUENT NO. (17-21)  SAMPLE TYPE	C. NO.	MIL. TEL			) L	15)	(16)	2-WATE
EFFLUENT NO. (17-21)  SAMPLE TYPE (22-23)	Su.	lfate		ride	Total S	us.Solid		
SAMPLE TYPE	c	0095	C	00951			C	To
Monitored   Permit Cond.	+	GR.	15	GR	GR	- <del></del>		1
FREQUENCY (24-28)  FREQUENCY (24-28)  EFFLUENT DaBy Ave. (29-36  DaTy 22 (37-44  UNITS  DATE  1 2 \	+		<del> </del>	GR	GR	· · · ·		<del> </del>
(24-28)   Monitored     EFFLUENT   DAEY AVE. (29-36     DATE   DAEY AVE. (29-36     DATE   DATE     1		GR   1/7	<del> </del>	1/7	1/7		<b> </b> -	<del> </del>
EFFLUENT LIMITATIONS  DATE  1 2	-}		<del>}</del>				<del> </del>	<del>-</del>
Date  Date  1 2 - 2 3 (4) 5 6 7 8 9 10 (11) 12 13 14 15 16 17 (18) 19 20 21 22 23 24 (25) 26 27 28 29 30 31 4 4YEFACE (29:36)		1/7 506	<del> </del>	1/7	1/7	<del></del>	<del> </del>	<del> </del>
UNITS  DATE  1 2	<del>"</del>		<del> </del>	1 8	20	<del> </del>	<del> </del>	<del></del>
DATE  1 2	<u>:)                                    </u>	1012	<del> </del>	1 0	30	<del> </del>	<b>!</b>	<del></del>
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. U.S.S. Lead Refinery, Inc. 5300 Kennedy Avenue East Chicago, Indiana 46312 PLEASE COMPLETE AND LEMIT TWO COPIES AT THE END OF EACH MONTH. THIS REPORT MUST REACH THE STHEAM POLLUTION CONTROL BOARD OFFICE BY THE 28TH OF THE FOLLOWING MONTH.

ENTER:

ENTER:

111N 015312141215 (1-7) PERMIT NUMBER

(8-10) (33 OUTFALL/ X FAC. NO. ...

012 813 (33-32)(33-34) MO. YR.

1 for NPDES 2 for SPC-15

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	none								
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LOWEST VALUE OF MONTH (45-52)		$\triangleright$	6.1	0.13	<u> </u>	0.00	-		
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(SIGNATURE OF CERTIFIED DIERATOR (SE)

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y. S. S. Mad Refinery, Inc.5300 Mennedy AvenueCast Chicago, Indiana 46312

SHEET 2 OF 2

FACH MONTH THIS REPORT MUST REACH THE STREAM ON LUTION CONTROL BOARD OFFICE BY THE STREAM ON LOWING MONTH.

13: 0,0,3,2,5,2,5 (1-7) PERMIT NUMBER G 32 (6 10) 6077404/ 012 513 (31-12) (31-14) MO. YR. ENTER:

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1 for NIDES 2 fer SPC-15 1 1:1801 kg 4:77 cg 5:24 cg

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u. S. S. Isad Refinery, Inc. 5310 Kinnedy Avenue Rest Chicago, Indiana 46312 SHOPE 5 01 2

PARK E COMMISSE AND NUMBER TO COMES AT THE PROPERTACH MONTH ORS PENDET MUST REACH THE STEERING MANAGEMENT COMES COMES AT THE PROPERTY OF THE STEERING DOWNERS MONTH.

(1-7) FERMIT NUMBER GGI (6:10) GUIFALM FAC. NO. 11193 03-51) 03-14) MO. YR.

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and the second s SHEET \_\_\_ OF PLEASE COMPLETE AND BHIT TWO COPIES AT THE END OF EACH MONTH, THIS REPORT MUST REACH THE STREAM POL-U. S. S. Lead Refinery. Inc. LUTION CONTROL BOARD OFFICE BY THE 28TH OF THE FOL 5300 Kennedy Avenue LOWING MONTH. East Chicago, Indiana 46312 92 ENTER: ENTER: 0101312141215 0.011 1 for NPDES 1 - INDUSTRY (1-7)(8-10)(33-72)(33-14) 2 for SPC-16 4-FEDERAL OUTFALL PERMIT NUMBER MO. YR. B-WATER SU FAC. NO. (15) (35) EFFLUENT CHARACTERISTICS FLOW pН Arsenic Lead cn1051 c 01000° o EFFLUENT NO. (17-21)50050 00400 Q Permit Cond. GR GR GR SAMPLE TYPE (22-23)Monltored GR GR GR 1/7 1/7 1./7 Permit Cond. FREQUENCY 1/7. 1/7 1/2\_  $(24 \cdot 28)$ Monttored Dally Ave. (24-36) EFFLUENT none LIMITATIONS 6-0-9-0 0\_2 1.-0 Dally Max. (37-44) none UNITS MGD HI LOW mE/l To May TOE / DATE To/day 1

3.11 .020 i (3) 02 6.1b ٠. 4 5 6 7 8 9 .02 5.9b. ( 10) 26 018 11 12 13 15 .16 17 12 - 19 *:*• 6.1b 21 010 .04 (20) 21 22 23 5.7 (24) 03 . 23 015 25 26 27 28 29 30 5.80 (31)03 38 030 AVERAGE 1.46 .02 0.01 (25-36) CHEST VALUE OF MONTH (37-44) .04 3,11 030 LOWEST VALUE OF MONTH (45-52) .02 . 21 010 i NO. OF TIMES MAX. EFFLUENT LIMITATIONS EXCEEDED (52-54)

(SIGNATURE OF CERTIFIED OPERATOR

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U. S. S. Lead Refinery, Inc. 5300 Kennedy Avenue East Chicago, Indiana 46312

07 PLEASE COMPLETE AND SMIT TWO COPIES AT THE END OF EACH MONTH, THIS REPORT MUST REACH THE STREAM POL-LUTION CONTROL BOARD OFFICE BY THE METH OF THE FOL LOWING MONTH.

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(SIGNATURE OF CERTIFIED OPERATOR (15)

### REPORT FOR SIN 15 OR NODES DISCENDED PERMITS

T. S. S. Land Refinery, Inc. 5300 Hemody Avenue Test Chicago, Indiana 46312

SPEET . 2 OF ..

PLEASE COMMETE AND SUBMIT THO COMES AT THE HALL OF EACH MONTH, THIS RESIDET MUST REACH THE STEEPING OF LUMION CONTROL DOARD OFFICE BY THE LITTLE THE HOLLOWING MONTH.

PERMIT NUMBER

<u>0.01</u> (E-30) OUTFALLI

FAC. NO.

(11-12) (33:4) MO. YR.

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1-150.001 4-FF00041 5-MATER 1

AC. NO.				(15) (16)						
EFFLUENT CHARACTERISTICS Sulfate			Finorice Total Sus.Solics							
EFFLUENT NO.	(17-21)	c	<b>,007.5</b>	<u>c</u>	<b>c</b> (395)	cectuil	.9	c	و.	
SAMPLETYPE	Present Cand.		GR		GR.	_CR	<u> </u>	<b> </b>		
(22-23)	Monttored		CR		[ <u>63</u>	GB		]		
FREQUENCY	Permit Cond.		1/7		1/7	1/7	J	)		
(24-13)	Monitored		1/7		1/7	1/7.	]			
EFFLUENT	DiSy Avg. (29 35)		505		1	20				
LIMITATIONS	Ditty (25 (37-44)		1012		8	30				
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	0F 116N7H (3744 <b>)</b>	310,13	]	]	7.3	123.2	]		]	
<u>LOHEST MALLE C</u>	F MONTH (45-52)	84.85		J		5.3_	J		1	
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2777747 Chs 740	7.FDED (55.54)	0		T	2	0	1	1.	-	

A THE STATE OF THE

U.S.S. Lead Refinery, Inc. 5300 Kennedy Avenue East Chicago, Indiana 46312 PLEASE COMPLETE AND JEMIT TWO COPILS AT THE END OF EACH MONTH. THIS REPORT MUST REACH THE STREAM POLLUTION CONTROL BOARD OFFICE BY THE 18TH OF THE FOLLOWING MONTH.

11 N 01 C1 31 214 1215 (1-7) PERMIT NUMBER

(8-10) OUTFALL/ FAC. NO.

110 812 (11-12)(13-14) MO. YR. ENTER:

ENTER:

1 for NPDES 2 for SPC-15 1 - INDUSTR 4 - FEDERAL 5 - WATER SI

	FAC.	NO.			•	•	•6	15)	(16)	· ····································
EFFLUENT CHAI	RACTERISTICS	FLOW	P	Н	Lezd		Arsa	nic	[	
EFFLUENT NO.	(17-21)	9 50050	00ن		c <sub>0</sub> 1051		c 01000			
SAMPLE TYPE	Permit Cond.	<del>(</del>	GR		GR		G2	:		
(22-23)	Monitored		GR		GR		GR	,		
FREQUENCY	Permit Cond.		11/7		1/7	1	1/7	,	:	1:
(74-28)	Monitored		1/7		1/7		1/7			
· EFFLUENT	Diffy Avg. (24-36)	none	1				1			1
LIMITATIONS	Dally Max. (37-44)		6-0-	9-0	0_2		10	1		
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LIMITATIONS E	XCEEDED (52.54)	0		. 0.	1	1	-2		1	

(SIGNATURE OF CERTIFIED OPERATOR (55)

(60) (SIGNATURE OF PRINCIPAL EXECUTAVE I

# REPORT IV SPC-15 OR NPDES DISCHARGE PA AITS

U. S. S. Lead Refinery, Inc. 5300 Kennedy Avenue 16312

SHEET 2 OF 2

PLEASE COMPLETE AND SUBMIT TWO COPIES AT THE END OF EACH MONTH, THIS REPORT MUST REACH THE STREAM FOW LUTION CONTROL BOARD OFFICE BY THE 26TH OF THE FOW LOWING MONTH.

1, 3 0, 0, 3, 2, 4, 2, 5

PERMIT NUMBER

GG1 (E-10) OUTFALL/ 1<sub>1</sub> 0 S<sub>1</sub>2 (11-12) (13-14) MO. YR.

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1 - INDUSTR' 4 - FEDERAL 5 - WATER SI

	FAC.						15)	(16)	D-WAI
EFFLUENT CHAP	RACTERISTICS	Sulfa	te	Fluo	ride	Total S	us.Soli	S	
EFFLUENT NO.	(17-21)	c	o095	c	000951	cribe"	Q.	С	<u>c</u>
SAMPLE TYPE	Permit Cond.		GR		GR	GR			
(22-23)	Monitored		GR		CR	GR			
FREQUENCY	Permit Cond.		1/7		1/7	1/7	1		
(24-28)	Monitored		1/7		1/7	1/7.			
EFFLUENT	Delly Avg. (29-36)	T	505	1	1	20		,	
	Dally 22. (37-44)	<del></del>	1012	1	8	3C	1		
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1	1	<del></del>	175.17		1,13	5.8	1	1	1
AVTPAGE	(29-36)			<del></del>	1.13			<del>-}</del>	1
	OF MONTH (37-44	4	52:25	+			<del> </del>	+	1
LOWEST VALUE O	OF MONTH (45-52)	-	52.25	<del></del>	.42	1.3	<del></del>	1:	1
•	O. OF TIMES MAX, EFFLUENT IMITATIONS EXCERDED (52-54)		0	<b>}</b> '	n	0			

#### INDIANA STREAM FOLLUTION CONTROL BOARD MONTP! Y MONITORING - COMES FOR ST REPORT FO SPC-15 OR NPDES DISCHARGE PEL AITS

U. S. S. Lead Refinery, Inc. 5300 Kennedy Avenue East Chicago, Indiana 46312

PLEASE COMPLETE AND SUBMIT TWO COPIES AT THE END OF EACH MONTH. THIS REPORT MUST REACH THE STREAM FOLLUTION CONTROL BOARD OFFICE BY THE 2ETH OF THE EDUCATION TO THE END OFFICE BY THE 2ETH OF THE EDUCATION TO THE END OFFICE BY THE 2ETH OF THE EDUCATION TO THE END OFFICE BY THE 2ETH OF THE 2ETH OFFICE BY THE 2ETH OFFIC

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13 0,0,3,2,4,2,5 (1-7) PERMIT NUMBER

0,01 (6-30) OUTFALL FAC. NO.

0 9 8 2 (11-12) (12-14) MO. YR.

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1 for NPDES 2 fo: SPC-15 1 - INDUSTE 4 - FEDER AL 5 - WATER 5

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FAC. NO.  EFFLUENT CHARACTERISTICS Sulfate			(15) (16)  Fluoride Total Sus.Solias						
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EFFLUENT NO.	(17-21)	c		حـــــــــــــــــــــــــــــــــــــ	<del></del>	crr.	<u> </u>	} c	
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AVEDAGE	(29-36)	T	10.75		.11		1		1
HIGHEST VALUE OF			24.75	j	1.33		1	1	
LOWEST VALUE OF	MONTH (45-52)		2.09		.02		T	:	· -
NO. OF TIMES MAX.	<b>EFFLUENT</b>	1		1			1		
LIMITATIONS EXCES	DED (53-54)	1 .	0	T	0	1	1 .		

AND ANY STREAM POLITICION CONTROL BOARD MONTHLE MONITORING TORRESPORM REPORT FOR SPC45 OR NP. ES DISCHARGE PERPARS

.. S. S. Lead Refinery, Inc. FDCC Kennedy Avenue est Chicago, Indiana 46312

0:0:1

(8-10)

OUTFALL/

(11-12)(13-14)

MO. YR.

1111 (2) (2) (2) (4) (2) (5)

(1-7) PERMIT NUMBER

SHEET 1 OF 2 PLEASE COMPLETE AND SUBMIT ONE CODY AT THE END OF EACH MONTH. THIS REPORT MUST REACH THE STREAM POLY CUTION CONTROL BOARD OFFICE BY THE 29TH OF THE FOIL LOWING MONTH.

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(15)	(16)	4 - FEDERAL 5 - WATER SUP

EFFLUENT CHARACTERISTICS	2.0.462 .70.00	FAC.		MU.	IA.		-		(15)	(16)	5 - WATER :
SAMPLE TYPE   Permit Cond.   GR   GR   GR   GR   GR   GR   GR   G	EFFLUENT CHARACTERISTICS		FLOW	)W. bH		GAGI		ARGEVIC			
C22-23    Monitored   C3   C8   C8     C7   C72-28    Monitored   C73   C8   C73   C74-28    Monitored   C74-28    Monitored   C74-28    Monitored   C74-28    Monitored   C74-28    Monitored   C74-28    Monitored   C74-28    Monitored   C74-28    Monitored	EFFLUENT NO.	(17-21)	Q 50050	Con	400	æ:1051	l o	c0100	0 0		
FREQUENCY	SAMPLE TYPE	Permit Cond.		_		GR	<u> </u>	CB_			
124-28	(22-23)	Monitored					<u></u>	GR_		<b>l</b> .	
Daily Ave. (24-36)   None   C-0-9-C   O.2   O.2   O.2   O.3   O.5   O.	FREQUENCY	Permit Cond.					<u> </u>			<u> </u>	<u> </u>
UMITATIONS	(24-28)			1/7		1/7	<u>!</u>	11/7			L I
DATE  UNITS  MGD HI LOW meA breay meA breay  1  2  3  4  5  6  7  8  0,007 7.016.8 .0901  9  10  11  12  13  14  15  15  17  18  19  19  19  10  11  11  11  12  13  14  15  15  17  18  19  20  21  22  0,003 8.016.4 .8  22  14  22  13  24  25  26  27  28  29  20  21  24  25  26  27  28  29  20  21  24  25  26  27  28  29  30  30  31  40  40  40  40  40  40  40  40  40  4				, ,			!	<del> </del>	- <del>,</del>	<del></del>	<del> </del>
DATE	CIRITATIONS	Dady Max. (37-44)	None	16-0	-7-0	0.2	<u> </u>	1.0	- 1	<u> </u>	
1 2 3 4 4 5 6 7 8 0.007 7.016.8 .0901  10 11 12 13 14 15 10 11 12 13 14 15 16 17 18 19 20 21 21 22 0.003 8.016.4 .802  23 24 25 26 27 21 21 24 25 26 27 28 29 30 30 31 4VERAGE (22-36) 0.006	DATE	אטדואט	MGD	Яï	LOW	me/l	D/Cay	me/l	lb/cay	`	
2 3 3 4 4 5 6 7 7 7 0,007 7,0;6.8 .0901   ***  ***  ***  ***  ***  ***  **				<u>'</u>	-		<u> </u>	<del>                                     </del>			<del> </del>
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and the state of t SHEAT \_\_\_\_\_ OF \_\_\_\_\_\_ PLEASE COMPLETE AND SUBMIT ONE TODY AT THE END OF EACH MONTH. THIS REPORT MUST REALLY THE STREAM FOLLOWS T. S. S. Lead Refinery, Inc. LUTION CONTROL BOARD OFFICE BY THE 25TH OF THE FOL-F100 Kennedy Avenue LOWING MONTH. st Chicago, Indiana 46312 ENTER ENTER: 1 11 2 10 13 12 14 12 15 0,012 011 311 I for NPDES 1 - INDUSTRY (8-10) 11-71 (11-12)(13-14) 2 for SPC-15 4 - FEDERAL PERMIT NUMBER 1 OUTFALL/ MO. YR. S-WATER SUPPLY FAC. NO. (15) (16) FLOW EFFLUENT CHARACTERISTICS LEAD Ыđ 18 6 E KT C @1051 | o EFFLUENT NO. (17-21) Q 50050 c01000 a C 00400 CS Permit Cond. czCP SAMPLE TYPE (22-23) C3. GR\_\_ CR. Monstored 1/7 1/7 1/7 Permit Cond. FREQUENCY 1/7 1/7 Monstored  $(24 \cdot 28)$ EFFLUENT Daily Ave. (24-36) None. LIMITATIONS 6-0-9-0 0.2 Daily Max. (37-44) Sope 1.0 UNITS MGD HI LOW me A Didas mEA Ib/day DATE 1 2 3 7.9.7.5 0.005 9.7 0.01 5 67.47 • ----122 1 10 -3-0 7-1 H. 0.003 n, 2 0.02 **Ģ**2≥ − ı 14 15 16 17 7.4 6.9 0.007 18 0,03 19 20 21 22 23 24 0.005 -.016.4 0.12 0.01 26 1 27 28 29 30 ī 0,005 U 30 0.017 (29-36) آ۱ 7 7 HIGHEST VALUE OF MONTH (37-44) 0,007 0.03 LOWEST VALUE OF MONTH (45-52) 0.003 <14.5 0.12 NO OF TIMES MAX. EFFLUENT

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Mar. 19. 1/51

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U.S.S. Lead Refinery Inc. 5300 Kennedy Avenue East Chicago, Ind. 46312 SHEET 2 OF 2

PLEASE COMPLETE AND SUBMIT ONE COPY AT THE END OF EACH MONTH. THIS REPORT MUST REACH THE STREAM FOR LUTION CONTROL BOARD OFFICE BY THE ZETH OF THE LOL-LOWING MONTH,

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## REPORT FO SPC-45 OR NPBES DISCHARGE PICTURES

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SHEET 2 OF 2

PLEASE COMPLETE AND SUBMIT ONE COPY AT THE END OF EACH MONTH, THIS REPORT MUST REACH THE STREAM FOIL LUTION CONTROL BOARD OFFICE BY THE 25TH OF THE FOLLOWING MONTH,

(3-7)
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1 for NPDES 2 for SPC-15 1 (15) ENTER:

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## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION V

DATE MAR 2 0 1984

SUBJECT

Compliance Sampling Inspection U.S.S. Lead Refinery, Incorporated

FROM.

John McGuire, Environmental Engineer Central Field Investigations Section

TO.

Edward Di Domenico, Chief Engineering Unit

THRU:

John F. Connell, Chief () Central Field Investigations Section

TUDIE

Gerald F. Regan, Chief Central District Office

Date of Inspection: January 10, 1984

A summary of the rating, Page 1 Section C of the 3560 Form is as follows:

1. Effluent within Permit Requirements: Unsatisfactory

2. Permit Verification : Unsatisfactory

3. Sampling Procedures : Marginal

i Prot.

## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION V ENVIRONMENTAL SERVICES DIVISION CENTRAL DISTRICT OFFICE CENTRAL FIELD INVESTIGATIONS SECTION

#### I. Permittee Identification

A. U.S.S. Lead Refinery, Incorporated 5300 Kennedy Avenue East Chicago, Indiana 46312

Responsible Officials: Mr. Golden, Plant Manager

Mr. Anthony Traicoff,

Maintenance Superintendent

C. NPDES Permit Number : IN0032425 D. Date of Issuance : June 15, 1975

E. Date of Expiration : March 31, 1980 Receiving Water : Grand Calumet River

II. Date of Inspection: January 10, 1984

#### III. Participants

A. Facility: Anthony Traicoff, Maintenance Superintendent

U.S. EPA: John McGuire, Environmental Engineer Charles Steiner, Aquatic Biologist

#### IV. **Objectives**

The objectives of this inspection were to investigate a duck kill near the U.S.S. Lead facility and sample the plant's discharge and ditch on the west side of the plant.

#### V. Findings

Grab samples were collected at two locations (see site sketch 1): the permittee's discharge sampling point (outfall 001) and a ditch on the west side of the plant. The sample analysis, Table 1, showed that the facility exceeded its permit limitation for lead at the effluent. The permit requires a 24-hour composite sample; however, the Central District Office collected a grab sample. For comparison an Environmental Services Division RCRA report for this facility is attached.

The facility's permit, a copy of which is attached, expired March 31, 1980, and a renewal request was not made unt. September 1982. The renewal application, dated September 27, 1982, and another letter explaining the delay are also attached.

Due to time limitation during the inspection, only the following items from the 3560 Form, Section C were rated:

- Effluent Within Permit Requirements Unsatisfactory
   Permit Verification Unsatisfactory
- 3. Sampling Procedure Marginal

#### VI. Description of Permittee

The facility is a secondary lead smelter using lead from old automobile batteries and industrial lead scrap as its raw material.

The batteries are handled as follows:

- acid is treated in a two stage system to remove any lead and to control the ph;
- 2. the lead battery cells are removed and sent to the blast furnace, —. and;
- the battery casings are separated by type, i.e. plastic or rubber, stored on site until enough have accumulated for shredding and then disposal.

Since this is not a continuous process, the unopend batteries and empty casings may be stored on the site for varying amounts of time.

Wastewater from the acid treatment system is discharged to the East Chicago WWTP.

Outfall 001 consists of non-contact cooling water and in-plant storm drains. The outfall flows into the discharge channel, which flows into a wetland bordering the Grand Calumet River. This wetland, which is owned by the company, has partly been filled in with blast furnace slag.

#### VII. Discussion

The blast furnace was shut down for maintenance on January 4, 1984, and only a small amount of water was being discharged from outfall 001. This discharge was mainly from water being flushed through the blast furnace and other plant systems to prevent these systems from freezing.

The facility collects samples from outfall 901 in the chann. after the water has left the discharge pipe. This sampling point could be influenced by runoff from the battery storage area, runoff or leaching from the slag-fill area or at low flow the discharge channel sediments. For these reasons the Sampling Procedures was rated marginal.

#### Attachments

Page 1, 3560 Form Sketch of Sample Points Table 1 RCRA Report Permit

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ACILITY REPR	_	<u></u>	TITL			PHONE		
Hother	zy Traice	<u>et F</u>	1774	111Thiance	Super-intendent	7 219-731-0500		
ECTION B - EH	luent Cherecteristic	(Additional shee	ts attached	_/	·			
ARAMETER/ DUTFALL OO/		MINIMUM	AVERAGE _	MAXIMUM	ADDI	TIONAL		
Flow	SAMPLE MEASUREMENT							
	PERMIT REQUIREMENT				mon, for when	1 Sampling		
-otal	SAMPLE MEASUREMENT				grab scompla			
ε.α ι·	PERMIT REQUIREMENT		`	_1	daily 24 hr.			
Arsenic	SAMPLE MEASUREMENT			0.256 mg/l	grab samp	/i		
	PERMIT REQUIREMENT			1.0mgf	daily 24 hr.,	Composite		
Total Suggended	SAMPLE MEASUREMENT			1	grab sampi			
sclids	PERMIT REQUIREMENT		20 mg/s	30 mg/s	daily 24 bi	composite		
Sulfate	SAMPLE MEASUREMENT				grab sample			
PERMIT REQUIREMENT    506/16/day 10/2/14/day daily 24hr., composite    Net velve-abora background level of into the waster    Section C - Facility Evaluation (5 = Setisfactory, U = Unsessificatory, N/A = Not applicable)   M - Margine!								
7,-			· Unsettisfactory, N	/A * Not applicable	1 M- Marginal			
RECORDS AND REPORTS COMPLIANCE SCHEDULE LABORATORY PRACTICES								
U PERMIT VERIFICATION FLOW MEASUREMENTS DTHER:								
SECTION D - C	omments							
SECTION E - In	spection/Review					ENFORCEMENT DIVISION		
AGENCY DATE USE ONLY								
Alm J. M' Lui USEPA 1/10/84 DECOMPLIANCE STATUS						DEDMPUANCE		
REVIEWED BY								
EPA FORM 350	10-3 (9-77)	REPLACES EP	A FORM T-51 (9-76	WHICH IS OBSO	LETE.	PAGE 1 OF 4		

and the state of t		IIULF	- Constitution	THE COMMISSION OF THE PROPERTY
Sample Number  CMC7	501	RO1	502	Perm. t
LINCT	ETFluent	Reayent BlassK	p, teli	
fr. senic myjz	0.256	< 2.0	0.020	1.0 mg/2 daily, 24 his comp.
· Lead magli	1,430	42.0	0.027	0.2 mgle Leily, 24 hr. comp.
Specific unios/m	3075		790	
pH · (1ab)	4.59		6.96	min max boo ge daily grab -
ρΗ (Field)	6,1		6,4	
Florida mg/2	13.8		1.3	Holbid 8.016/1 74 hr. comp.
Total Suspended Solids mg/L	15		9	south someth daily 24 hr, comp.
Suifate mg/l.	1130	. `	136	Bobible 1012 bold daily 24-Ar. com
		1		
_	•			
* Enelyzed by Graphit	e furnace ut for les	Atomic Al	sorption A	method. This method hos a
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	1	<del>-</del>		

Table 1 continued I AP Metals NUMBER OF SAMPLE(s) TO BE REPORTED : 15

DL1:[001,054]RUN408.HRN

27

20-JAN-84

14:31:55

- PAGE

EL	EMENT	BATA Effluent CH09501	SE I Rei	CD0174 Geof Black CH09R01		D,+c <i>l</i> ; :H09802
AG	49/1- < +	3.00	<	3.00	<	3.00
AL	July 2	1370.	<	80.		217.
B	1	576.	<	80.		167.
BA	}	32.7	<	5.0		29.2
₽E	<	1.00	<	1.00	· <	1.00
CD		387.	<	2.00	<	2.00
CO	- 1	10.4	<	6.00	<	6.00
CR	<	8.0	<	8.0		40.0
CU	}	29.2	<	6.00	<	6.00
FE	- 1	4520.	<	80.	•	3060.
LI	ì	82.0	<	10.0		20.7
W14	1	783.	<	5.		236.
MO	<	10.0	<	10.0	~<	10.0
NI	1	111.	<	15.0	<	15.0
FB	- 1	1520.	<	70.0	<	70.0
SN	<	40.0	<	40.0	<	40.0
SR		322.	<	10.		191.
TI	1 <	20.0	<	20.0	<	20.0
Ų	\	5.00	<	5.00	ζ.	5.00
Υ	\ <	5.00	<	5.00	<	5.00
ZN	V	2400.	<	40.0		74.7
CA	mg/L	351.0	<	0.5	•	67.1
K	$\sigma_{_{\mathbf{I}}}$	31.7	<	2.00		6.47
MG	Ţ	54.8	<	0.1		28.0
NA	1	217.	<	1.0		43.5
						•

\* < means less then the detectable limit.

U.S.S. Lead Refining 5300 Kennedy East Chicago, Indiana

> unspende battery. Storage area

sempling point

Bridge 5/ag Fil

Discrarge Channel

Wetland

1:11 17

Grand Zalumeit Rivi14

## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION V

DATE

SUBJECT Compliance Sampling Inspection

USS Lead Refinery, Incorporated

ĺ

FROM: John J. McGuire, Environmental Engineer Central Field Investigations Section

TO: Edward Di Domenico, Chief ... Engineering Unit

THRU: John F. Connell, Chief

Central Field Investigations Section

THRU: Gerald F. Regan, Chief

Central District Office

Date of Inspection: April 5, 1984

#### Summary of Findings

The facility was rated unsatisfactory (see Section C Form 3560) for

- (1) Effluent Within Permit Requirements, (2) Permit Verification,
- (3) Operation & Maintenance, and (4) Sampling Procedures. The facility was rated marginal for Flow Measurements. Records & Reports and Laboratory Practices could not be rated.

Attachment

# UNITED STA LS ENVIRONMENTAL PROTECTION AGENCY REGION V ENVIRONMENTAL SERVICES DIVISION CENTRAL DISTRICT OFFICE CENTRAL FIELD INVESTIGATIONS SECTION

#### I. Permittee Identification

- A. U.S.S. Lead Refinery, Incorporated 5300 Kennedy Avenue East Chicago, Indiana 45312
- B. Responsible Officials
  - 1. Mr. Golden, Plant Manager
  - 2. Mr. R.D. Steels, Plant Engineer
- C. NPDES Permit Number: IN0032425
- D. Date of Issuance: June 15, 1975
- E. Date of Expiration: March 31, 1980
- F. Receiving Water: Grand Calumet River
- II. Dates of Inspection: April 9-10, 1984

## III. Participants

- A. Facility: R.D. Steels, Plant Engineer
- B. U.S. EPA
  - 1. John McGuire, Environmental Engineer
  - 2. Sylvia Griffin, Physical Science Technician
  - 3. Mark Wehling, Engineer Trainee

## IV. Objective ·

The objective of this inspection was to perform a Compliance Sampling Inspection with a 24-hour composite sample collected at outfall 001 and a grab sample taken in the canal.

#### V. Findings

A. Form 3560, Section C, Facility Evaluation

The facility was nated unsatisfactory for Effluent Withir Permit Requirements. Permit Verification, and Sampling Procedures. The Records & Reports and Laboratory Practices Sections were not nated since samples are sent to Mansfield Laboratory in Elkhart, Indiana.

#### VI. Description of Permittee

A. The facility is a secondary lead smelter using lead from old automobile and truck batteries and industrial lead scrap as its raw material.

The batteries are handled as follows:

- acid is treated in a two stage system to remove lead and to control the pH;
- sludges from the acid treatment system are disposed of under RCRA as a hazardous waste;
- the lead battery cells are removed and sent to the blast furnace;
   and
- 4. the battery casings are separated by type, i.e. plastic or rubber, stored on site until enough have accumulated for shredding and then disposal.

Since this is not a continuous process, the unopened batteries and empty casings may be stored on the site for varying amounts of time.

Wastewater from the acid treatment system is discharged to the East Chicago WWTP.

According to Mr. Steels, outfall 001 consists of non-contact cooling water and storm drains (see Figure 1). Casting house cooling water and storm drains combine with boiler house storm drains at sewer A. The water then flows to sewer B where cooling water from the furnace joins the flow before being discharged without any treatment at discharge 001.

#### B. Self Monitoring

The facility's permit, which expired in March 1980, required flow measurement (when sampling); daily 24-hour composite sampling for total lead, arsenic, sulfate, fluoride, and total suspended solids; and a daily grab sample for pH. The sampling frequency was changed to a weekly grab sample in a letter from the ISBH dated March 15, 1976.

#### VII. U.S. EPA Sampling Program

Two ISCO samplers were used to sample the waste steam at sewer B. The samplers were programmed to take a 400ml water sample every 60 minutes. These 24-hourly samples were composited in a 5-gallon plastic container and thoroughly mixed. From this composite two 960ml plastic bottles were filled. One bottle was for general chemistry (TSS, sulfate, and fluoride) and one for metals (total lead and arsenic). A grab sample was also taken at this point for pH on poth cays of the inspection.

A grab sample was taken from the canal on April 10, 1934, for the same sample parameters as listed above. These samples were taken by placing the sample containers directly into the canal.

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The following preservation procedures were used:

- 1. ice was added to the ISCO samplers during the sampling period;
- 2. diluted (1:1) nitric acid was added to the metal samples; and
- samplers were kept on ice during transport to the Central Regional Laboratory under ESD Chain-of-Custody.

The facility supplied the following flow information:

Blast Furnace 300 gal/hr  $\times$  24 hr. = 7,200 gal Casting House 1200 gal/hr  $\times$  6 hr. = 7,200 gal

There was no rain during the sampling period, thus, only cooling water was being discharged.

#### VII. Discussion

- A. Detailed Evaluation of Form 3560, Section C
  - 1. Effluent Within Permit Requirements Unsatisfactory.

Analytical results of the sample taken during the imspection, Tables 1 and 2, shows the facility exceeded its permit limit for lead. The limit is 0.2 mg/l and the sample contained 4.01 mg/l. The EPA samples in January were also above the permit limit.

The facility monthly discharge monitoring reports were reviewed for September 1983 thru February 1984, and all six exceeded the lead limit.

2. Records and Reports - No ratings .

Information from Section G is needed to rate Records and Reports. Since the facility sends samples to a laboratory in Elkhart, Indiana, Mr. Steels could only answer two of the ten question in this section, questions (a)(i) and (b). Two other questions, (d) and (f) were not applicable.

Permit Verification - Unsatisfactory

The facility permit expired March 31, 1980, and a renewal request was not sent to the state until Settember 1982, as reported in the CDO inspection of January 11, 1984.

4. Operation and Maintenance - Unsatisfactory

The facility stores 16,000 gallons of  $\pm 2$  fuel oil or the site but does not have a SPCC plan. An SPCC Form 7510-53 was completed and has been given to Robert Bowden, Chief, Spfils Response Section, CDO.

5. Flow Measurement - Marginal

The flow measurement for furnace and casting house cooling water are only estimates. These estimates do not take into account water due to storm runoff or inflow - infiltration to the drainage system.

6. Sampling Procedures - Unsatisfactory

As noted in the January inspection, the facility's sampling point in the channel could be influenced by runoff from the battery storage area, runoff or leaching from the slag-filled area or during low flow, leaching from the discharge channel sediments.

Samples are sent to Mansfield Laboratory in Elkhart, Indiana, but are neither refrigerated during shipment nor preserved with nitric acid as required by Standard Methods.

7. Laboratory Practices - not rated

The facility sends samples to Mansfield Laboratory in Elkhart, Indiana, therefore this section was not evaluated.

8. Canal Samples

The samples on April 10, 1984, were taken closer to the facility than those taken on January 10, 1984. The April samples tended to be higher than the January results.

For	Approved	
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	HPDES CO	MPLIAN INSI	ECTION RE	PORT (Coding Insin	ictions w. back of lest pr	(64)	
TRANSACTION				<del></del>	:INSPEC- FAC	TIME	
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				REMARKS		<b></b>	
21						64	
	ADDITIONAL						
65	70						
SECTION A - Per	mit Summery						
AME AND ADDRESS OF FACILITY (Include County, State and ZIP code)							
U. S. S. L 5300 K Ecst C.	ennedy Av hicago, I	inery, In ieme indiana	1. <i>c.pori</i> 46312	ited Lake C	County	Meriti 31,1980 SSJANCE DATE Tune 15,1875	
RESPONSIBLE (				TITLE		PHONE 10- 307-16/2	
P.J.B.				General M	anager	719-397-1012 312-731-05cc	
FACILITY REPR		·	I	TITLE	<del>, · · · · · · · · · · · · · · · · · · ·</del>	HONE	
R. P. S	Teels			Plant En	19,1700-	seine	
SECTION B - EH	fluent Characteristic	(Additional shee	ts attached	<u>~</u>			
PARAMETER/ OUTFALL		MINIMUM	AVERAC	SE MAXIMUM	ADDITE	ONAL	
Flow	SAMPLE MEASUREMENT		0,015		Estimated for semple ferred	4/8-10/84	
(MC-D)	PERMIT REQUIREMENT				Maniter Willer		
Total Lead	SAMPLE MEASUREMENT			4.01 mg/1	4/9-10/34	emple, tation	
	PERMIT REQUIREMENT			. 0,2mg/1	El'eckly, Gra	ь	
Arseni 6	SAMPLE MEASUREMENT			0,024mg/j.	1 Composite so	imple, taken	
	PERMIT REQUIREMENT			1.0 mg/x	1 //	a b	
Total Suspended	SAMPLE MEASUREMENT			1.01blday	composite Sa 4/9-10/84	mpie, taken	
s lids	PERMIT REQUIREMENT		20mg/		Weekly, for		
Sulfate	SAMPLE MEASUREMENT			175 mg/2 21.9 Wdey	4/9-10/84		
	PERMIT REQUIREMENT		Sol 14/a	The above bo	CHOREUNI BURL	be interesting	
The state of the s							
WEFFLUENT WITHIN PERMIT REQUIREMENTS & OPERATION AND MAINTENANCE & SAMPLING PROCEDURES							
UPERMIT VERIFICATION FLOW MEASUREMENTS OTHER:							
SECTION D - Comments & See report.							
		e report	<del>'</del>			ENEODOCIES TO	
SECTION E - Inspection/Review  SIGNATURES AGENCY DAT						ENFORCEMENT DIVISION	
INSPECTED BY					<del>- </del>	COMPLIANCE STATUS	
delin	Mr. Shu	~		U, S, EPA	Ar:119,1994		
UNSPECTED BY	Y					JCDMPUANCE	
<b></b>		······································				INONEOWPHANCE	
REVIEWED BY	(					_	
EPA EORM 354		BED! ACEC CO.		<del></del>	<del></del>		

	tivent Characteristic	s (AJJilional she	els elleched	7	1.NOO32425
RRINETER! OUTFALL		พฤษเพาพ	AVERAGE	MAXIMUM	ADDITIONAL
$f^{d}$	SAMPLE MEASUREMENT	4/9/84		4/10/84	Grab sample,
·	PERMIT REQUIREMENT	6,0			Weekly Grib
-Ivirida	SAMPLE MEASUREMENT			11.00mjl	Weekly Grob Composite Sample, Taken 419-10184
	PERMIT REQUIREMENT		4,5/6/day	5.016/day	weethly, brab
	SAMPLE . MEASUREMENT				
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For Approved OMS No. 158 - ROSTS

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sections F thru L: Complete on all inspections, as appropriate. N/A = Not Applicable	PERM:	NO. 2013スタス	5
ECTION F - Facility and Permit Background		<del></del>	
Date of Last Previous INV Including City, County and ZIP code)  January 1954  FINDINGS  Un Known		BY EPASTA	TE,
ECTION G - Records and Reports			
	other explorat	ion etteched	<u> </u>
DETAILS: Questions dealing with the kb could not be a	والمصروب والموسودا		
a) ADEQUATE RECORDS MAINTAINED OF:	Ø	<u> </u>	
(i) SAMPLING DATE, TIME, EXACT LOCATION	S YES	□ NO	
(ii) ANALYSES DATES, TIMES (iii) INDIVIDUAL PERFORMING ANALYSIS	YES DYES	□ NO	DN:4
(iv) ANALYTICAL METHODS/TECHNIQUES USED	O YES	D NO	DNI
(v) ANALYTICAL RESULTS (e.g., consistent with self-monitoring report data)	U YES	DNO	DN.
b) MONITORING RECORDS (e.g., flow, pH, D.O., etc.) MAINTAINED FOR A MINIMUM OF THREE YEARS INCLUDING ALL DRIGINAL STRIP CHART RECORDINGS (e.g. continuous monitoring instrumentation		`	
calibration and maintenance records).	B YES	□ NO	DN/
c) LAB EQUIPMENT CALIBRATION AND MAINTENANCE RECORDS KEPT.	U YES	D NO	□n:
d) FACILITY OPERATING RECORDS KEPT INCLUDING OPERATING LOGS FOR EACH TREATMENT UNI	T. O YES	ON,	BN.
e) QUALITY ASSURANCE RECORDS KEPT.	D YES	□ NO	DN/
1) RECORDS MAINTAINED OF MAJOR CONTRIBUTING INDUSTRIES (and their compliance states) USING PUBLICLY OWNED TREATMENT WORKS.	3 YES	□ NO	Bn:
SECTION H - Permit Verification			
NSPECTION OBSERVATIONS VERIFY THE PERMIT. YES NO NA (Further explanation DETAILS:			
a) CORRECT NAME AND MAILING ADDRESS OF PERMITTEE.	# YES	O NO	O N
b) FACILITY IS AS DESCRIBED IN PERMIT.	Ø YES	□ NO	DN.
(c) Principal Product(S) and Production Rates Conform with those set forth in Permi APPLICATION.	B YES	□ NO	DN.
d) TREATMENT PROCESSES ARE AS DESCRIBED IN PERMIT APPLICATION.	Z YES	D NO	<u>D</u> _N
(e) NOTIFICATION GIVEN TO EPA/STATE OF NEW, DIFFERENT OR INCREASED DISCHARGES.	D YES	NO NO	<u>D</u> N
(f) ACCURATE RECORDS OF RAW WATER VOLUME MAINTAINED.	YES YES	NO	<u>D</u> N.
(g) NUMBER AND LOCATION OF DISCHARGE POINTS ARE AS DESCRIBED IN PERMIT.	E YES	<u> </u>	
(h) CORRECT NAME AND LOCATION OF RECEIVING WATERS. Grand Calumet River	M YES	□ NO	 □n:
	,		
TREATMENT FACILITY PROPERLY OPERATED AND MAINTAINED. THE YES TO NO TO NA (	imie expla	ution assoched	I_V
DETAILS: Discharge consist of non-contact cooling water a			
(a) STANDBY POWER OR OTHER EQUIVALENT PROVISIONS PROVIDED.	U YES		N.
(b) ADEQUATE ALARM SYSTEM FOR POWER OR EQUIPMENT FAILURES AVAILABLE.	D YES	<u></u>	BN.
(c) REPORTS ON ALTERNATE SOURCE OF POWER SENT TO EPASTATE AS REQUIRED BY PERMIT.	U YES	D ND	<b>5</b>
(d) SLUDGES AND SOLIDS ADEQUATELY DISPOSED.	YES YES	□ NO	 
(e) ALL TREATMENT UNITS IN SERVICE.  (f) CONSULTING ENGINEER RETAINED OR AVAILABLE FOR CONSULTATION ON OPERATION AND MAINTENANCE PROBLEMS.	O YES	□ NO	D N
(9) QUALIFIED OPERATING STAFF PROVIDED. C/655 P	Z YES	□ NO	DN
(h) ESTABLISHED PROCEDURES AVAILABLE FOR TRAINING NEW OPERATORS.	Z YES	[] NO	DN
(i) FILES MAINTAINED ON SPARE PARTS INVENTORY, MAJOR EQUIPMENT SPECIFICATIONS, AND PARTS AND EQUIPMENT SUPPLIERS.	☐ YES	□ NO	B.N
(j) INSTRUCTIONS FILES KEPT FOR OPERATION AND MAINTENANCE OF EACH ITEM OF MAJOR EQUIPMENT.	□ YES	□ NO	B <sub>N</sub>
k) OPERATION AND MAINTENANCE MANUAL MAINTAINED.	☐ YES	□ NO	12 N
III SPCC PLAN AVAILABLE. (8000 Gal/Tenk of # 2 Fuel cil) X2	2 YES	<b>2</b> NO	۵N
IMI REGULATORY AGENCY NOTIFIED OF BY PASSING. (Dates)	☐ YES	D NO	<b>₽</b> N
In) ANY BY-PASSING SINCE LAST INSPECTION.	D YES	□ №0	B.N
(a) ANY HYDRAULIC AND/OR ORGANIC OVERLOADS EXPERIENCED.	T YES	□ <b>~</b> 0	E.V

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	- <del>-</del>	32425	-
SECTION J - Compliance Schedules	1-2-1-		
	expienstion atta		
CHECK APPROPRIATE PHASE(S).	Apieranona	: 1110	_
CHECK APPROPRIATE PHASE(S).  [] (a) THE PERMITTEE HAS OBTAINED THE NECESSARY APPROVALS FROM THE APPROPRIATE			j
AUTHORITIES TO BEGIN CONSTRUCTION.			i
(b) PROPER ARRANGEMENT HAS BEEN MADE FOR FINANCING (mortgage commitments, grants, et	tc.J.		1
CONTRACTS FOR ENGINEERING SERVICES HAVE BEEN EXECUTED.			1
(d) DESIGN PLANS AND SPECIFICATIONS HAVE BEEN COMPLETED.			7
(a) CONSTRUCTION HAS COMMENCED.			7
(1) CONSTRUCTION AND/OR EQUIPMENT ACQUISITION IS ON SCHEDULE.		-	. 1
(g) CONSTRUCTION HAS BEEN COMPLETED.			7
(h) START-UP HAS COMMENCED.			,
[] (i) THE PERMITTEE HAS REQUESTED AN EXTENSION OF TIME,			!
SECTION K - Self-Monitoring Program			
Part 1 - Flow measurement (Further explanation attached]			
PERMITTEE FLOW MEASUREMENT MEETS THE REQUIREMENTS AND INTENT OF THE PERMIT.	T YES	D NO	□N/A
DETAILS. Flow is estimated from process stream intak		<i>-</i> -	<u> </u>
(a) PRIMARY MEASURING DEVICE PROPERLY INSTALLED.	D YES	D NO	KN/A
TYPE OF DEVICE: OWEIR OPARSHALL FLUNE OMAGMETER OVENTURI METER			
(b) CALIBRATION FREQUENCY ADEQUATE. (Date of less exlibration)	D YES	<u>D</u> NO	ZN'E
(c) PRIMARY FLOW MEASURING DEVICE PROPERLY OPERATED AND MAINTAINED.	☐ YES	□ NO	<u> 8 × ~</u>
ICISECONDARY INSTRUMENTS (ICIGILIZES, recorders, etc.) PROPERLY OPERATED AND MAINTAINED.	U YES	U NO	<u> </u>
(e) FLOW MEASUREMENT EQUIPMENT ADEQUATE TO HANDLE EXPECTED RANGES OF FLOW RATE	S. D YES	D NO	<u>₹v.≂</u>
Part 2 - Sampling (Further explanation attached)			
PERMITTEE SAMPLING MEETS THE REQUIREMENTS AND INTENT OF THE PERMIT.	O YES	D NO	□N/A
DETAILS:			
(a) LOCATIONS ADEQUATE FOR REPRESENTATIVE SAMPLES.	D YES	B NO	□n.e
(b) PARAMETERS AND SAMPLING FREQUENCY AGREE WITH PERMIT.	□ YES	D NO	
(c) PERMITTEE IS USING METHOD OF SAMPLE COLLECTION REQUIRED BY PERMIT.	P YES	D NO	ŪN;A
IF NO. DGRAB DMANUAL COMPOSITE DAUTOMATIC COMPOSITE FREQUENCY.			
(d) SAMPLE COLLECTION PROCEDURES ARE ADEQUATE.	□ YES	R NO	
(i) SAMPLES REFRIGERATED DURING COMPOSITING Not Refrigerated during sto	·· v	MO NO	<u> </u>
(iii) PROPER PRESERVATION TECHNIQUES USED  (iii) FLOW PROPORTIONED SAMPLES OBTAINED WHERE REQUIRED BY PERMIT	☐ YES	D NO	□N/A Zn. A
(iii) FLOW PROPORTIONED SAMPLES OBTAINED WHERE REQUIRED BY PERMIT  (iv) SAMPLE HOLDING TIMES PRIOR TO ANALYSES IN CONFORMANCE WITH 40 CFR 136.3	7 D YES	D NO	□ N/A
(e) MONITORING AND ANALYSES BEING PERFORMED MORE FREQUENTLY THAN REQUIRED BY	2		
PERMIT.	□ YES	Ø NO	□ N/A
(1) IF (e) IS YES, RESULTS ARE REPORTED IN PERMITTEE'S SELF-MONITORING REPORT.	□ YES	D NO	<b>E</b> N/A
Part 3 - Laboratory (Further explanation strucked L) Could not evaluate 166	· .		
PERMITTEE LABORATORY PROCEDURES MEET THE REQUIREMENTS AND INTENT OF THE PERMIT	T. 🗆 YES	D NO	□ N/A
DETAILS: Facility sends samples out for analysis.	<u>.                                    </u>		
(a) EPA APPROVED ANALYTICAL TESTING PROCEDURES USED. (40 CFR 136.3)	☐ YES	. D NO	□ N. 4
16) IF ALTERNATE ANALYTICAL PROCEDURES ARE USED, PROPER APPROVAL HAS LEN OBTAIN	ED. 🗆 YES	□ NO	⊒n 4
(c) PARAMETERS OTHER THAN THOSE REQUIRED BY THE PERMIT ARE ANALYZED.	□ YES	□ NO	⊒n ≥
IN SATISFACTORY CALIBRATION AND MAINTENANCE OF INSTRUMENTS AND EQUIPMENT.	O YES	E NO	
(e) QUALITY CONTROL PROCEDURES USED.	☐ YES	[ NO	
(1) DUPLICATE SAMPLES ARE ANALYZED N OF TIME	☐ YES	<u> </u>	<u> </u>
	D YES	E NO	<u></u>
(n) COMMERCIAL LABORATORY USED.  (i) COMMERCIAL LABORATORY STATE CERT: FIED.	D YES	□ NO	<u>-\</u>
	☐ YES	<u> </u>	
LAB NAME Mansfield Lab			
LAB ADDRESS Elkhert Ind.			
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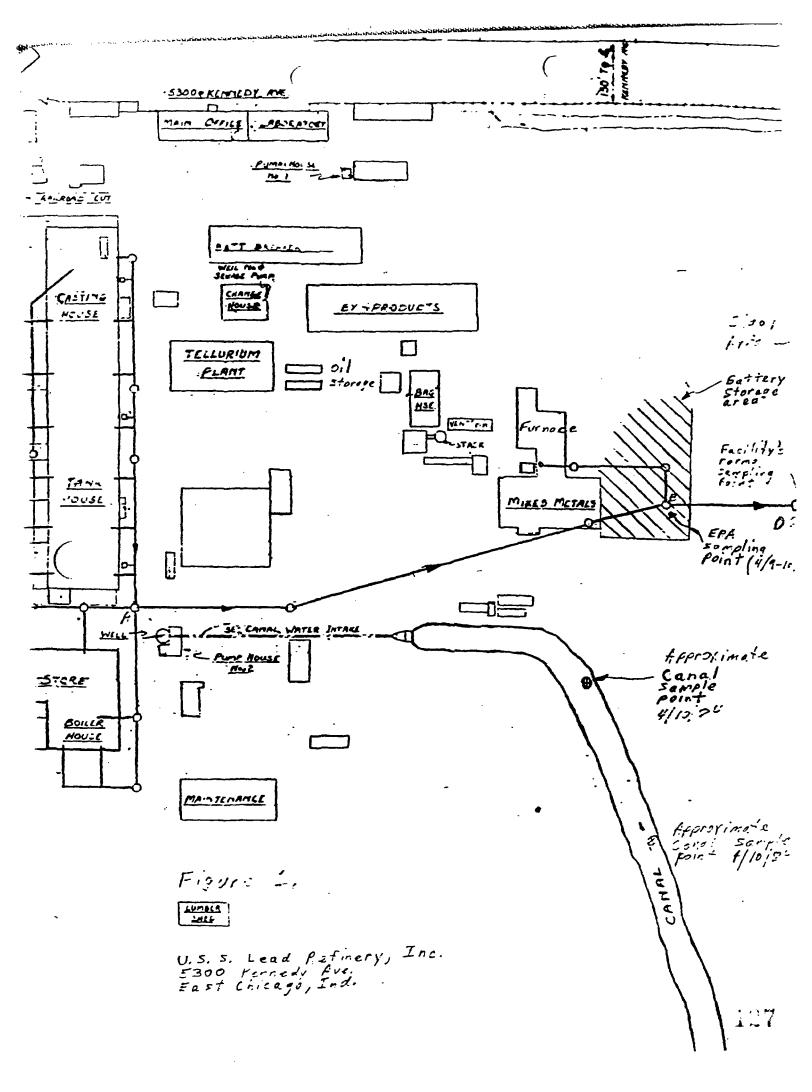
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STREAM POLLUTION CONTROL BOARD



#### INDIANAPOLIS 46206-1964

1330 West Michigan Street P. O. Box 1964

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STATE OF INDIANA	)				LUTION CONTROL
COUNTY OF MARION	) SS	: BOA	RD OF THI	E STATE OF	INDIANA
	•				<b>\</b>
IN THE MATTER OF	THE STREAM	POLLUTION	)		
CONTROL BOARD OF	THE STATE	OF INDIANA	)		
			)		_
vs	•		)	CAUSE 1	NO. B-891
	•		)		
U.S.S LEAD REFINE	RY, INC.		)		

#### NOTICE OF HEARING AND COMPLAINT

TO: Mr. Victor Posner, President U.S.S Lead Refinery, Inc. 5300 Kennedy Avenue East Chicago, IN 46312

Prentice Hall Corporation Company Resident Agent, U.S.S. Lead Refining, I 1100 Circle Tower Indianapolis, IN 46204

You are herety notified, as provided by the Indiana Administrative Adjudication Act at IC 4-22-1-6 and the Indiana Environmental Management Act at IC 13-7-11, and pursuant to the authority therein granted, that the Stream Pollution Control Board of the State of Indiana, on the 20th day of March 1984, ordered that a hearing be held before Mr. James M. Garrettson, a duly authorized representative of the Stream Pollution Control Board, acting on its behalf as its Hearing Officer.

You are further notified that the matters in issue and to be determined at this hearing relate to the question of whether or not Respondent has violated, is now violating, or is about to violate the provisions of the Indiana Stream Pollution Control Law, IC 13-1-3, or the Indiana Environmental Management Act, IC 13-7, as amended, including any and all applicable regulations promulgated thereunder, by permitting, threatening, causing, or contributing to the pollution of certain waters of this State, more particularly: (see enclosed Summary).

Also to be considered is whether an Order should be made requiring any or all Respondents in this Cause to cease and desist from threatening, causing, or contributing to the pollution of said waters of the State and from violating applicable statutes and regulations promulgated thereunder and also whether or not an Order, including civil

penalty, and/or schedule of compliance, should be recommended to the Stream Pollution Control Board by the Hearing Officer pursuant to the authority granted by IC 13-7-11-5 or IC 13-7-13-1.

Pursuant to IC 13-7-11-2 and IC 4-22-1-4, you are requested to attend a prehearing conference on April 27, 1984, at 9:30 a.m., E.S.T., in Room 336, Indiana State Board of Health Building, 1330 West Michigan Street, Indianapolis, Indiana, to attempt to reach a settlement on this matter prior to the hearing date. Arrangements for rescheduling of prehearing conference times or dates should be made by contacting—Ms. MaryAnn Stevens at AC 317/633-0768.

Failing settlement at the prehearing conference, you are further notified that a formal administrative hearing shall be held on May 24, 1984, at 9:30 a.m., E.S.T., in Room 336, Indiana State Board of Health Building, 1330 West Michigan Street, Indianapolis, Indiana.

You are entitled to be represented by counsel, to attend this hearing with witnesses, and to present any testimony on your behalf in order to aid the Stream Pollution Control Board in reaching a determination in this matter. Arrangements for rescheduling of the hearing time or date should be made by contacting the Hearing Officer at AC 317/633-8548, or by mail to the following address:

Mr. James M. Garrettson, Hearing Officer Indiana Stream Pollution Control Board 1330 West Michigan Street Indianapolis, IN 46206

Written appearance of counsel should be promptly filed with the Hearing Officer if counsel is contemplated. Timely filing of written appearance by counsel may be considered in the granting of continuances.

Dated at Indianapolis, Indiana, this \_\_\_\_ day of April, 1984.

Earl A. Bohner Technical Secretary

Enclosure

cc: Office of the Attorney General
Attention: Ms. Deborah Albright
Mr. Ron Mustard, Region V, U.S. EPA 
Hearing Officer
Lake County Health Department
Ronale G. Blankenbaker, M.D.
Mr. Ralph C. Fickard

SUMMARY
Request for Hearing
U.S.S. Lead Refinery, Inc.
East Chicago, Indiana
IN 0032425

U.S.S. Lead Refinery, Inc., in East Chicago, was issued an NPDES Permit No. IN 0032425 on June 10, 1975. The permit has since expired, but staff has continued to treat it as the effective permit until a new permit is reissued. The Company is a recycler of lead from batteries. Among the various limitations specified in the permit is a limit of 0.2 mg/l total lead to be measured by daily composite samples of the discharges into the Grand Calumet River. The Company's Discharge Monitoring Reports submitted under the requirements of the NPDES permit show that U.S.S. Lead Refinery consistently is in violation of the total lead limit and furthermore is only sampling one time per week using a grab sample.

A January 25, 1984, inspection by staff indicates that all process and sanitary wastewater is discharged into the city sewers. It is run-off from the property that leaches lead contamination from the years of operations at this site and discharges into the river. A Company official told staff during the inspection that paving of the outside battery storage area is being considered for this up-and-coming spring season. Staff is concerned that this paving actually be accomplished with proper drainage and curbing to collect the run-off so it can be treated prior to release to a receiving stream. Staff requests that the Board appoint a Hearing Officer to conduct a Hearing into the matter of violations of Indiana Regulation 330 IAC 5 (failure to comply with terms of the NPDES Permit) by U.S.S. Lead Refinery, Inc.

MAStevens/jb 3/20/84

# STATE - INDIANA

STREAM POLLUTION CONTROL BOARD

#### INDIANAPOLIS 46206-1964

C Kronel

1330 West Michigan Street P. O. Box 1964

VIA CERTIFIED MAIL

STATE OF INDIANA )  SS:		BEFORE THE STREAM POLLUTION CONTROL
COUNTY OF MARION )		BOARD OF THE STATE OF INDIANA
IN THE MATTER OF THE STREAM POLLUTION CONTROL BOARD OF THE STATE OF INDIANA Petitioner	)	<b>₩</b>
vs.	)	CAUSE NO. B-891
U.S.S. LEAD REFINERY, INC. Respondent	)	

#### NOTICE OF CONTINUANCE

TO: Mr. Robert N. Steinwurtzel
Brown, Roady, Bonvillian & Gold
Suite 300
1300 Nineteenth Street, N.W. \
Washington, D.C. 20036

Please be notified that the Prehearing Conference in the above matter set for the 27th day of April, 1984, has been continued and is reset for the 24th day of May, 1984, at 9:30 a.m., E.S.T., in Room 336, Indiana State Board of Health Building.

The Hearing date scheduled for the 24th day of May, 1984, has been continued and is reset for the 22nd day of June, 1984, at 9:30 a.m., E.S.T., in Room 336, Indiana State Board of Health Building, 1330 West Michigan Street, Indianapolis, Indiana. You are referred to the Notice of Hearing filed in this Cause for the issues upon which evidence may be heard at that time.

Dated at Indianapolis, Indiana, this 🔼 day of April, 1984.

James M. Garrettson, Hearing Officer

cc: Office of the Attorney General
Attention: Kenneth M. Wahnsiedler
Mr. Ron Mustard, U.S. EPA, Region V
Lake County Health Department
Mr. Ronald E. Golden, U.S.S. Lead Refinery, Inc.
Ronald G. Blankenbaker, M.D.
Mr. Ralph C. Pickard

# STATE - INDIANA

STREAM POLLUTION CONTROL BOARD



#### INDIANAPOLIS 46206-1964

1330 West Michigan Street P. O. Box 1964

VIA CERTIFIED MAIL

STATE OF INDIANA )

SS:

BEFORE THE STREAM POLLUTION CONTROL

BOARD OF THE STATE OF INDIANA

IN THE MATTER OF THE

STREAM POLLUTION CONTROL

BUARD OF THE STATE OF INDIANA

Petitioner )

Vs.

CAUSE NO. B-891

U.S.S. LEAD REFINERY, INC.

Respondent )

NOTICE OF CONTINUANCE

TO: Mr. Robert N. Steinwurtzel
Brown, Roady, Bonvillian & Gold
Suite 300
1300 Nineteenth Street, N.W.
Washington, D.C. 20036

Please be notified that the Rearing in the above matter set for the

28th day of June, 1984, has been continued indefinitely.

Dated at Indianapolis, Indiana, this day of June, 1984.

James M. Garrettson, Hearing Officer

cc: Office of the Attorney General
Attention: Kenneth M. Wahnsiedler
Mr. Ron Mustard, U.S. EPA, Region T
Lake County Health Department
Ronald G. Blankenbaker, M.D.
Mr. Ralph C. Pickard